

1 Job Details & Summary

1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	9.625	8.921	36	n/a	0	1549	0
Open Hole	Outer	n/a	8.5	n/a	n/a	1555	17873	18
Casing	Inner	5.5	4.778	20	Buttress	0	17857	18

1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Bulk Trailer	502	Borst, David	100
Silo	656		
Silo	661		
Silo	660		
Bulk Trailer	509	Valenzuela, Yannick	100
Cement Pump	101	Groneman, Josh	100
Light Duty Pickups	6	Casciato, Luke	100

1.3 Timing

Event	Date/Time
Call Out	8/7/2017 04:30
Depart Facility	8/7/2017 18:00
On Location	8/7/2017 19:30
Rig Up Iron	8/8/2017 00:00
Job Started	8/8/2017 02:45
Job Completed	8/8/2017 07:20
Rig Down Iron	8/8/2017 07:45
Depart Location	8/8/2017 09:30

1.4 General Job Information

Metrics	Value
Well Fluid Density	10.6 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	200 bbls
Rig Circulation Time	4 hours
Calculated Displacement	395 bbls
Actual Displacement	395 bbls
Total Spacer to Surface	80 bbls
Total CMT to Surface	140 bbls

1.5 Well Fluid Details

Metrics	Value
Plastic Viscosity	16
Yield Point	12
10 sec. SGS	7
10 min. SGS	10
30 min. SGS	11
Filtrate	5
Flow Line Temp.	140

1.6 Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	Yes
Well Fluid Density Into Well	10.6 lb/gal
Well Fluid Density Out of Well	10.6 lb/gal

1.7 Job Details (cont.)

Metrics	Value
BHCT	220 °F
BHST	220 °F



1.8 Circulation

Lost Circulation Experienced
No

Circulation Details:

1.9 Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sk)	Volume (bbl)	Top (ft)
1	1	CD Spacer	Spacer	11.00			32.76		80.00	0
1	2	P100-X2	Lead	13.20	1.82	9.89		1000.00	325.01	0
1	3	P50-X1	Tail	13.50	1.47	7.43		2050.00	538.40	6755
1	4	Water & MMCR	Displacement	8.33			41.90		10.00	17448
1	5	Water w/ Clay Protection and Biocide	DisplacementFinal	8.33			41.91		406.00	0

1.10 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	1	Spacer	CD Spacer	ASR-20	StrengthRetrogression	180.06	lb/bbl
1	1	Spacer	CD Spacer	ASF-20	Surfactant	0.50	gal/bbl
1	1	Spacer	CD Spacer	ASF-80	Surfactant	0.50	gal/bbl
1	1	Spacer	CD Spacer	AVS-10	Viscosifier	1.00	lb/bbl
1	2	Lead	P100-X2	AC3-10	Cement	100.00	%
1	2	Lead	P100-X2	ABX-20	BondEnhancer	3.00	%BWOB
1	2	Lead	P100-X2	ADF-11	Defoamer	0.30	%BWOB
1	2	Lead	P100-X2	AFL-50	FluidLoss	0.50	%BWOB
1	2	Lead	P100-X2	AR-31	Retarder	0.17	%BWOB
1	2	Lead	P100-X2	AVS-20	Viscosifier	0.10	%BWOB
1	3	Tail	P50-X1	ACG-10	Cement	50.00	%
1	3	Tail	P50-X1	AFA-10	Extender	50.00	%
1	3	Tail	P50-X1	ADF-11	Defoamer	0.30	%BWOB
1	3	Tail	P50-X1	AFL-50	FluidLoss	0.20	%BWOB
1	3	Tail	P50-X1	AR-20	Retarder	0.10	%BWOB
1	3	Tail	P50-X1	AVS-10	Viscosifier	0.10	%BWOB
1	3	Tail	P50-X1	AVS-50	Viscosifier	2.00	%BWOB
1	4	Displacement	Water & MMCR	AR-61	Retarder	0.10	gal/bbl
1	5	DisplacementFinal	Water w/ Clay Protection and Biocide	ASF-50	ClayProtection	0.08	gal/bbl
1	5	DisplacementFinal	Water w/ Clay Protection and Biocide	Biocide	Other	0.01	gal/bbl

2 Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	CALLOUT	8/7/2017	16:30					CREW CALLED TO BAYSWATER TIME REQUESTED ON LOCATION 2100
2	STEACS	8/7/2017	17:00					CREW CONDUCTED JOURNEY MANAGEMENT
3	DEPART FACILITY	8/7/2017	18:00					CREW HEADS TO LOCATION
4	ARRIVE ON LOCATION	8/7/2017	19:30					CREW ARRIVES ON LOCATION
5	ASSESS LOCATION	8/7/2017	19:45					CREW CONDUCTED WALK THROUGH OF LOCATION
6	STEACS	8/7/2017	20:00					CREW CONDUCTED STEACS PRIOR TO SPOTTING
7	SPOTTING EQUIPMENT	8/7/2017	22:30					CREW SPOTS EQUIPMENT
8	STEACS	8/7/2017	22:45					CREW CONDUCTS STEACS PRIOR TO RIG UP
9	RIG UP EQUIPMENT	8/8/2017	00:00					CREW RIGS UP CEMENTING EQUIPMENT
10	OTHER	8/8/2017	00:00					RIG LANDED OUT 5.5" AT THIS DEPTH
11	STEACS	8/8/2017	02:00					CJ CREW, RIG CREW, COMPANY MAN DISCUSSED JOB PROCEDURES
12	FILL LINES AND TEST	8/8/2017	02:51	8.33	2	2	6000	TESTED TREATING IRON
13	PUMP SPACER	8/8/2017	03:01	11	5	80	750	MIXED AND PUMPED 80BBL OF SPACER AT 11PPG. FULL RETURNS.
14	PUMP LEAD	8/8/2017	03:20	13.2	6	326	250	MIXED AND PUMPED 326BBL OF LEAD CMT (1000SKS, 1.82YLD, 9.89GL/SK) AT 6BPM. FULL RETURNS.
15	PUMP TAIL	8/8/2017	04:11	13.5	6	552	700	MIXED AND PUMPED 552BBL OF TAIL CMT AT 13.5PPG (2050SKS, 1.47YLD, 7.43GL/SK) FULL RETURNS
16	SHUTDOWN	8/8/2017	05:53					SHUTDOWN IN ORDER TO WASH PUMPS AND LINES.
17	WASH LINES	8/8/2017	05:54	8.33	3	10	200	PUMPED 10BBL OF H2O IN ORDER TO CLEAN LINES.
18	PUMP DISPLACEMENT	8/8/2017	06:00	8.33	8	176	3000	PUMPED 176BBL OF H2O WITH BIOCIDE, AND CLAY STABILIZER.
19	SHUTDOWN	8/8/2017	06:24					SHUTDOWN WHEN RECEIVED SPACER TO SURFACE IN ORDER TO SWAP LINES TO PITS.



20	PUMP DISPLACEMENT	8/8/2017	06:31	8.33	5	209	3000	PUMPED 209BBL OF H2O WITH BIOCIDES, AND CLAY STABILIZER AT 5BPM. 300PSI, FULL RETURNS.
21	SLOW RATE	8/8/2017	07:09	8.33	2	10	2200	SLOWED RATE IN ORDER TO LAND TOP PLUG.
22	LAND PLUG	8/8/2017	07:14				2800	LANDED PLUG AT 2300PSI. BUMPED TO 2800PSI.
23	CHECK FLOATS	8/8/2017	07:19					FLOATS HELD. 2.5BBL IN RETURN.
24	STEACS	8/8/2017	07:45					CREW CONDUCTED STEACS PRIOR TO RIG DOWN
25	RIG DOWN	8/8/2017	08:00					CREW RIGGED DOWN ALL IRON AND FITTINGS.
26	STEACS	8/8/2017	09:30					PRE-CONVOY SAFETY MEETING.
27	DEPART LOCATION	8/8/2017	10:30					CREW DEPARTS LOCATION, HEADS FOR CAMP.

3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	76 °F	50-80 °F
pH Level	7.9	5.5-8.5
Chlorides	400 mg/L	0-3000 mg/L
Total Alkalinity	350	0-1000
Total Hardness	100 mg/L	0-500 mg/L
Carbonates	60 mg/L	0-100 mg/L
Sulfates	450 mg/L	0-1500 mg/L
Potassium	620 mg/L	0-3000 mg/L
Iron	120 mg/L	0-300 mg/L

4 Pump Diagrams

Customer: BAYSWATER
Well Number: O-20-19HN
Lease Info: WARD



Print Date/Time
8/8/2017 8:13:08 AM

