Schlumberger

Cementing Service Report

Customer	Job Number
Encana	C459-02922

Well	Location (legal)	Schlumberger Location	Job Start
Bohrer 21-19H			Jul/13/2014

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ	Shale	90 deg	6.1 in	11480.0 ft	6955.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	196 degF	196 degF	lb/gal

Well Master	API/UWI
0631513492	05123384420000

Rig Name	Drilled For	Service Via
Patterson #326	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Other	11.30 lb/gal	cP

Service Line	Job Type
Cementing	Production

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
2300 psi	psi	Blackhawk CMT head

Service Instructions

40bbl Mudpush
121bbl 440sks CMT @ 14# 1.55 Yield 7 gal/sk water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
7486.0	7.0	26.0	P110	BUTT
11480.0	4.5	13.5	P110	8RD

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	171.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	171.0 bbl	206.0 bbl	bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	Pipe Rotated	Pipe Reciprocated
psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Jul/13/2014 14:30	Jul/13/2014 14:30	Jul/13/2014 20:00

Casing Tools

Shoe Type	Float
Shoe Depth	11480.0 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Other
Collar Depth	11477.0 ft

Squeeze Job

Squeeze Type	
Tool Type	
Tool Depth	ft
Tail Pipe Size	in
Tail Pipe Depth	ft
Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/13/2014	16:28:34	7	0.0	8.31	0.0	Started Acquisition
07/13/2014	16:28:37	7	0.0	8.31	0.0	Start Job
07/13/2014	16:28:38	7	0.0	8.31	0.0	Fill lines
07/13/2014	16:33:34	158	0.0	8.31	2.0	
07/13/2014	16:34:40	1210	0.0	8.31	2.0	Pressure Test 1000psi
07/13/2014	16:35:59	4975	0.0	8.31	2.0	Pressure Test 5000psi
07/13/2014	16:38:34	10	0.0	8.32	2.0	
07/13/2014	16:43:34	128	0.0	8.32	2.0	
07/13/2014	16:48:34	140	0.0	8.32	2.0	
07/13/2014	16:53:34	151	0.0	8.32	2.0	
07/13/2014	16:57:46	496	1.8	12.76	3.1	Pumping Mudpush
07/13/2014	16:58:34	893	4.1	13.08	5.1	
07/13/2014	17:03:34	629	4.1	13.07	25.7	
07/13/2014	17:07:41	45	0.0	12.93	42.2	Reset Total, Vol = 42.24 bbl
07/13/2014	17:07:52	39	0.0	12.93	42.2	End Mudpush
07/13/2014	17:08:34	39	0.0	12.93	42.2	
07/13/2014	17:12:51	631	4.5	13.56	55.3	Start Mixing Lead Slurry
07/13/2014	17:13:34	632	4.5	13.64	58.5	
07/13/2014	17:18:34	555	4.5	14.01	81.1	
07/13/2014	17:23:34	1114	6.4	14.05	107.2	
07/13/2014	17:28:34	447	4.5	14.01	138.9	