Schlumberger
Dowell

Cementing Service Report

Customer	Job Number
CHEVRON CANADA RESOURCES LIMITED	20126563

Well	Location (legal)	Dowell Location	Job Start
CHEVRON LIARD O-80	O-80.	Ft St John, BC	10/1/99

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
		0 °	0 mm	0 m	0 m

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Northwest Territorie	NT	0 kPa	0 °C	0 °C	0 kPa/m

Rig Name	Drilled For	Service Via
none	Oil & Gas	Land

Offshore Zone	Well Class	Well Type
	New	Exploration

Drilling Fluid Type	Max. Density	Plastic Viscosity
	0 kg/m³	0 cp

Service Line	Job Type
Other	Pumping Others

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
7500 kPa	0 kPa	

Service Instructions

conduct injectivity test on injection well

Casing/Liner

Depth, m	Size, mm	Weight, kg/m	Grade	Thread
0	0	0		
0	0	0		

Tubing/Drill Pipe

Depth,	Size, mm	Weight, kg/m	Grade	Thread
0	0	0		
0	0	0		

Perforations/Open Hole

Top, m	Bottom, m	spm	No. of Shots	Total Interval
0	0	0	0	0 m
0	0	0	0	Diameter
0	0	0	0	0 mm

Treat Down	Displacement	Packer Type	Packer Depth
Tubing	0 m³		0 m

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
0 m³	0 m³	0 m³	0 m³

Casing/Tubing Secured ☐	1 Hole Volume Circulated prior to Cementing ☐
Lift Pressure: kPa	
Pipe Rotated ☐	Pipe Reciprocated ☐
No. Centralizers: 0	Top Plugs: 0 / Bottom Plugs: 0
Cement Head Type:	

Job Scheduled For:	Arrived on Location:	Leave Location:
	10/1/99 8:30	10/2/99 1:00

Casing Tools

Shoe Type:	
Shoe Depth:	0 m
Stage Tool Type:	
Stage Tool Depth:	0 m
Collar Type:	
Collar Depth:	m

Squeeze Job

Squeeze Type:	
Tool Type:	
Tool Depth:	0 m
Tail Pipe Size:	0 m
Tail Pipe Depth:	0 m
Sqz Total Vol:	0 m³

Time 24 hr clock	[illegible]	Press.	Rate b/min	[illegible]	[illegible]	[illegible]	[illegible]	Message
8:30								arrive on location, rig in
9:00								get battery and cables from rig
10:00								wait on frozen well head
14:03	0.005	26.01	0.	0	0	0	0	Pressure Test Lines
14:05	0.005	26.01	0.	0	0	0	0	well pressure 510kpa
14:06	0.049	0.821	58.72	0	0	0	0	
14:11	0.062	0.537	0.	0	0	0	0	open well head
14:52	0.062	0.566	0.	0	0	0	0	
14:52	0.062	0.568	0.	0	0	0	0	Start Job
14:57	0.232	1.36	37.09	0	0	0	0	
15:02	0.41	1.58	37.09	0	0	0	0	
15:07	0.588	1.8	34.	0	0	0	0	
15:12	0.764	2.02	34.	0	0	0	0	
15:17	0.937	2.08	34.	0	0	0	0	
15:22	1.11	2.27	34.	0	0	0	0	
15:27	1.28	2.37	34.	0	0	0	0	
15:32	1.45	2.49	34.	0	0	0	0	
15:37	1.61	2.46	34.	0	0	0	0	
15:42	1.78	2.65	30.91	0	0	0	0	
15:47	1.94	2.71	30.91	0	0	0	0	
15:52	2.11	2.94	34.	0	0	0	0	

Well		Field		Service Date	Customer	Job Number
CHEVRON LIARD #C-60					ON CANADA RESOURCES	20126583

Time								
15:57	2.27	3.91	30.91	0	0	0	0	
16:02	2.44	2.97	37.09	0	0	0	0	
16:07	2.62	3.82	34.	0	0	0	0	
16:12	2.74	4.61	0.	0	0	0	0	
16:15	2.74	4.61	0.	0	0	0	0	at max press
16:17	2.81	4.7	18.54	0	0	0	0	
16:22	2.93	3.25	34.	0	0	0	0	
16:27	3.04	4.29	9.27	0	0	0	0	
16:32	3.1	4.55	12.36	0	0	0	0	
16:37	3.17	4.83	9.27	0	0	0	0	
16:42	3.23	4.36	9.27	0	0	0	0	
16:47	3.28	4.26	9.27	0	0	0	0	
16:52	3.34	4.26	9.27	0	0	0	0	
16:55	3.34	4.26	9.27	0	0	0	0	[CumVol]=3.378 m3
16:57	0.017	4.26	9.27	0	0	0	0	
17:02	0.073	4.29	9.27	0	0	0	0	
17:04	0.073	4.29	9.27	0	0	0	0	[CumVol]=.1613 m3
17:07	0.21	3.54	71.09	0	0	0	0	
17:12	0.553	4.99	64.9	0	0	0	0	
17:17	0.886	7.23	61.81	0	0	0	0	
17:22	1.25	5.75	74.18	0	0	0	0	
17:27	1.6	5.84	68.	0	0	0	0	
17:32	1.95	5.68	71.09	0	0	0	0	
17:37	2.31	5.27	68.	0	0	0	0	
17:45	2.85	5.21	64.9	0	0	0	0	
17:50	3.2	5.9	68.	0	0	0	0	
17:55	3.54	5.21	68.	0	0	0	0	
18:00	3.89	4.61	68.	0	0	0	0	
18:05	4.24	5.08	71.09	0	0	0	0	
18:10	4.58	5.08	71.09	0	0	0	0	
18:15	4.93	4.96	68.	0	0	0	0	
18:20	5.27	5.18	68.	0	0	0	0	
18:25	5.62	5.27	68.	0	0	0	0	
18:30	5.96	5.4	68.	0	0	0	0	
18:35	6.3	5.46	68.	0	0	0	0	
18:40	6.64	5.49	68.	0	0	0	0	
18:45	6.99	5.46	68.	0	0	0	0	
18:50	7.33	5.46	71.09	0	0	0	0	
18:55	7.68	5.59	68.	0	0	0	0	
19:00	8.02	5.52	68.	0	0	0	0	
19:04	8.02	5.52	68.	0	0	0	0	[CumVol]=8.292 m3
19:05	0.078	5.84	89.63	0	0	0	0	
19:10	0.599	6.44	102.	0	0	0	0	
19:15	1.11	6.44	102.	0	0	0	0	
19:20	1.61	6.41	102.	0	0	0	0	
19:25	2.14	6.57	102.	0	0	0	0	
19:30	2.66	6.63	102.	0	0	0	0	
19:35	3.17	6.69	102.	0	0	0	0	
19:40	3.69	6.76	105.1	0	0	0	0	
19:45	4.22	6.95	105.1	0	0	0	0	
19:50	4.75	6.63	105.1	0	0	0	0	
19:55	5.27	6.72	102.	0	0	0	0	
20:00	5.8	6.91	105.1	0	0	0	0	

Well	Field	Service Date	Customer	Job Number
CHEVRON LIARD #O-80			:ON CANADA RESOURCES	[illegible]

Time 24hr clock	CumVol m3	Pressure MPa	Rate L/min	[illegible]	[illegible]	[illegible]	[illegible]	Message
20:05	6.32	8.66	105.1	0	0	0	0	
20:10	6.84	6.95	105.1	0	0	0	0	
20:15	7.36	6.79	105.1	0	0	0	0	
20:20	7.88	7.01	102.	0	0	0	0	
20:25	8.4	7.01	105.1	0	0	0	0	
20:30	8.92	6.63	102.	0	0	0	0	
20:35	9.44	6.79	102.	0	0	0	0	
20:40	9.96	6.66	102.	0	0	0	0	
20:45	10.47	6.79	102.	0	0	0	0	
20:50	10.99	6.85	102.	0	0	0	0	
20:55	11.5	6.63	102.	0	0	0	0	
21:00	12.02	6.91	102.	0	0	0	0	
21:05	12.53	6.69	102.	0	0	0	0	
21:10	13.05	6.72	105.1	0	0	0	0	
21:15	13.56	6.85	102.	0	0	0	0	
21:20	14.08	6.69	102.	0	0	0	0	
21:25	14.59	6.79	102.	0	0	0	0	
21:30	15.12	6.63	102.	0	0	0	0	
21:35	15.63	6.72	102.	0	0	0	0	
21:40	16.15	6.53	105.1	0	0	0	0	
21:46	16.67	6.79	102.	0	0	0	0	
21:51	17.18	6.76	102.	0	0	0	0	
21:56	17.69	6.63	105.1	0	0	0	0	
21:59	17.69	6.63	105.1	0	0	0	0	[CumVol]=18.02 m3
22:01	0.232	7.01	142.2	0	0	0	0	
22:06	0.944	7.36	142.2	0	0	0	0	
22:11	1.66	7.36	142.2	0	0	0	0	
22:16	2.37	7.1	142.2	0	0	0	0	
22:21	3.09	7.2	142.2	0	0	0	0	
22:26	3.8	7.23	145.3	0	0	0	0	
22:31	4.51	7.29	142.2	0	0	0	0	
22:36	5.23	7.29	142.2	0	0	0	0	
22:41	5.94	7.26	145.3	0	0	0	0	
22:46	6.66	7.29	142.2	0	0	0	0	
22:51	7.37	7.29	142.2	0	0	0	0	
22:56	8.08	7.23	142.2	0	0	0	0	
23:01	8.8	7.26	142.2	0	0	0	0	
23:06	9.51	7.23	142.2	0	0	0	0	
23:11	10.23	7.26	142.2	0	0	0	0	
23:16	10.94	7.26	142.2	0	0	0	0	
23:21	11.65	7.29	142.2	0	0	0	0	
23:26	12.37	7.29	142.2	0	0	0	0	
23:31	13.08	7.29	142.2	0	0	0	0	
23:36	13.8	7.26	142.2	0	0	0	0	
23:41	14.51	7.26	142.2	0	0	0	0	
23:46	15.23	7.29	145.3	0	0	0	0	
23:51	15.94	7.26	142.2	0	0	0	0	
23:56	16.65	7.26	142.2	0	0	0	0	
0:01	17.36	7.23	142.2	0	0	0	0	
0:06	18.07	7.83	120.5	0	0	0	0	
0:08	18.07	7.83	120.5	0	0	0	0	stop pump
0:11	18.31	4.86	0.	0	0	0	0	
0:16	18.31	3.88	0.	0	0	0	0	

Well	Field	Service Date	Customer	Job Number
CHEVRON LIARD #O-60			ON CANADA RESOURCES	2012053

Time	Clock	Pressure	Rate					Message
24 hr		MegaPa	m³/min					
0:21	18.31	3.31	0.	0	0	0	0	
0:26	18.31	2.9	0.	0	0	0	0	
0:28	18.31	2.9	0.	0	0	0	0	end job
0:31	18.31	0.032	0.	0	0	0	0	
0:36	18.31	0.032	0.	0	0	0	0	

Job Summary

Average Pump Rates, m³/m				Volume of Fluid Injected, m³			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
0.75	0	0	0.14	0	0	0	0

Treating Pressure Summary, kPa					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
7800	7500	6000	0	0		0 m³	0 kg/m³

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
0 %	0 m³	0 m³	°C	☐ Washed Thru Perfs To	0 m³ / 0 m

Customer or Authorized Representative	Dowell Supervisor	
Miles	Michael King	☐ Circulation Lost ☐ Job Completed