Schlumberger
Dowell

Coiled Tubing Service Report

Customer	Job Number
RANGER OIL LIMITED	20049441

Well	Location (legal)	Dowell Location	Job Start
Ranger Nota Creek C-17 C-17	C17	Norman Wells, NT	3/9/98

Field	Formation Name/Type	Deviation	BHSTat:	Well MD	Well TVD
Nota Creek		0 °	0 m	1,916 m	1,916 m

County	State/Province	BHP	BHST	BHCT	Pore Pres Gradient
	NWT	0 kPa	27 °C	25 °C	0 kPa/m

Rig Name	Drilled For	Service Via
Sheltsh #4	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Exploration

Primary Treating Fluid	Fluid Viscosity	Fluid Density
15% HCL	12 cp	kg/m³

CT Reel ID	CT String ID	CT Size	CT Thickness
		38.1 mm	0 mm

Service Line	Job Type
Coiled Tubing	CT Scale Removal

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
50000 kPa	11600 kPa	73 mm lbg Swage

Casing

Depth, m	Size, mm	Weight, kg/m	Grade	Thread
1953	178	34.27	K55	BRD
0	0	0		

Tubing

Depth,	Size, mm	Weight, mm	Grade	Thread
1893.59	73	9.69		
0				

Perforated Intervals

Top, m	Bottom, m	spm	No. of Shots	Total Interval
1900.5	1906	0	0	9 m
1894.5	1898	0	0	Diameter
0	0	0	0	0 mm

Service Instructions

Supply men, equipment & materials to perform CT Acid Wash & Squeeze w/ 0.5 m3 Diesel Preflush + 2% U42, 4.0 m3 15% HCL + 0.2% A261+ 2% W54 + 10% U100

Treat Down	Displacement	Packer Type	Packer Depth
Coiled Tubing	2.3 m³		0 m

Tubing Vol.	CasingVol.	AnnulerVol.	OpenHoleVol
5.7 m³	0.46 m³	3 m³	0 m³

Job Scheduled For:	Arrived on Location:	Leave Location:	Fill Type	Fill Depth	Minimum Restriction
3/9/98 8:30	3/9/98 1:30:00 AM	3/9/98 10:00:00 PM		0 m	52 mm

Time	CT Depth	CT Weight	Rates		Volumes		Pressures		Message
			CO2/N2	Fluid	Increm.	Cum.	Circulating	Wellhead	
24 hr clock	m	0	m³/m	m³/m	m³	m³	kPa	kPa	
	0	0	0	0	0	0	0	0	Safety & Operations Meeting

Post Job Summary

Average Injection Rates, m³/m

Fluid	N2	CO2	Maximum Rate
0.026	12	0	0.037

Volume of Fluid Injected, m³

Fluid	Acid	N2	CO2	Displacement
2.2	4	0	0	2.3

Treating Pressure Summary, kPa

Breakdown	Maximum	Final	Average	ISIP
0	50000	24600	22000	21500

Breakdown Fluid

Type	Volume	Density
Nitrogen	0 m³	0 kg/m³

BHA Type	Number of Runs	Total Footage Run	CO2 Percent	N2 Percent	Designed Fluid Volume
Other		0 m	0 %	0 %	4 m³

Customer or Authorized Representative	Dowell Supervisor	
Andy Goruk	Christophe Smith	☐ Pressure Deployed ☐ CirculationLost ☐ Underbalanced ☑ Job Completed

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