



CCRP Operating Inc.

True Ranch Fee 502-2326H

API # 05-123-47413

Surface

11/2/2018

Quote #: 22148

Execution #: 12694



CCRP Operating Inc.

Attention: Mr. Josh Falls | (720) 484-1146 | Josh.Falls@iptenergyservices.com

CCRP Operating Inc. | 730 17th Street, Suite 610 | Denver, CO. 80202

Dear Mr. Josh Falls,

Thank you for the opportunity to provide cementing services on this well. BJ Services strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact BJ Services at any time.

Sincerely,
Jason Creel
Field Engineer I | (307) 256-3006 | jason.creel@bjservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007
Phone: (307) 638-5585

Sales Office 999 18th St. Suite 1200 Denver, CO 80202
Phone: (281) 408-2361

Cementing Treatment



Start Date	11/2/2018	Field Ticket#	FT-12694-X0Q2F50201-376502043
End Date	11/2/2018	Well	TRUE RANCH FEE 502-2326H
Client	CCRP Operating Inc	API#	05-123-47413
Client Field Rep.	Mark	County	WELD
Service Sup.	Brian Boyd	State/Province	CO
District	Cheyenne, WY	Execution ID	EXC-12694-X0Q2F502
Type of Job	Surface	Project ID	PRJ1012274

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50	0.00	0.00	2,138.00	2,138.00	50.00
Casing	8.92	9.63	36.00	2,125.00	2,125.00	

Shoe Length (ft): 42.00

HARDWARE

Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	2,083.00
Top Plug Size	9.625	Max Casing Pressure - Rated (psi)	3,512.00
Centralizers Used	No	Max Casing Pressure - Operated (psi)	2,012.00
Centralizers Quantity	22.00	Pipe Movement	None
Centralizers Type	Bow	Job Pumped Through	Manifold
Landing Collar Depth (ft)	2,083	Top Connection Thread	LTC
		Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud In	2
Circulation Prior to Job	Yes	YP Mud In	4
Circulation Time (min)	60.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	6.00	10 sec SGS	1.00
Circulation Volume (bbls)	220.00	10 min SGS	1.00
Lost Circulation Prior to Cement Job	No	Flare Prior to/during the Cement Job	No
Mud Density In (ppg)	8.50	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	36.00	Slurry Cement Temperature (°F)	61.00
Mix Water Temperature (°F)	56.00	Flow Line Temperature (°F)	78.00

Cementing Treatment



BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3337			0.00				20.0000
Spacer / Pre Flush / Flush	50/50 Sodium Silicate	10.0000			0.00				20.0000
Lead Slurry	BJCem S100.03.1C	12.0000	2.5298	14.86	0.00	1570	482	1,150.0000	204.8000
Lead Slurry	BJCem S100.03.1C	12.5000	2.2255	12.59	1,570.00	550	193	421.0000	75.0000
Displacement Final	Water	8.3300			0.00			0.0000	160.7000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	100.0000	PCT
Spacer / Pre Flush / Flush	50/50 Sodium Silicate	SILICATE, SODIUM, A-3L	21.0000	GPB
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Displacement Final	Water	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	Amount of Cement Returned/Reversed	98.00
Calculated Displacement Volume (bbls)	161.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	162.00	Amount of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	1,226.00	Total Volume Pumped (bbls)	516.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

EVENT LOG



Customer Name: CCRP Operating Inc

Well Name: TRUE RANCH FEE 502-2326H

Job Type: Surface

Quote ID: QUO-22148-T9R0H1

Plan ID: ORD-12694-X0Q2F5

District: Cheyenne, WY

Execution ID: EXC-12694-X0Q2F502

BJ Supervisor: Brian Boyd

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	11/02/2018 00:55	Callout					Customer requested crew to be on location at 4:00
2	11/02/2018 02:30	Arrive on Location					BJ crew has journey management and departs from location. Crew arrives on location and meet with customer
3	11/02/2018 06:00	STEACS Briefing					BJ crew has steacs over rigging up iron and hoses
4	11/02/2018 06:10	Rig Up					BJ crew rigs up iron and hoses
5	11/02/2018 07:30	Other (See comment)					Waiting on rig to finish running casing
6	11/02/2018 09:40	STEACS Briefing					Steacs briefing with BJ crew, rig crew and company man over job and hazards
7	11/02/2018 10:14	Prime Up	8.3300	2.00	3.00	44.00	Fill pumps and lines
8	11/02/2018 10:16	Pressure Test	8.3300	2.00	3.00	3,000.00	Pressure test iron and head to 3000 PSI
9	11/02/2018 10:18	Pump Spacer	8.3300	4.00	20.00	167.00	Pump 20 bbls of fresh water head with red dye
10	11/02/2018 10:22	Pump Spacer	9.2000	4.00	20.00	127.00	Pump 20 bbls of 50/50 mix of sodium silicate
11	11/02/2018 10:32	Pump Spacer	8.3300	4.00	20.00	120.00	Pump 20 bbls of fresh water
12	11/02/2018 10:42	Pump Lead Cement	12.0000	5.00	217.00	230.00	Pump 217 bbls of 12 PPG lead cement (482 sks, 2.52 Yield, 14.86 Gals/Sks)
13	11/02/2018 11:26	Pump Tail Cement	12.5000	5.00	76.00	198.00	Pump 76 bbls of 12.5 PPG Tail cement (193 Sks, 2.22 Yield, 12.59 Gals/Sks)
14	11/02/2018 11:46	End Pumping					Shut down pumping
15	11/02/2018 11:54	Drop Top Plug					Drop top plug with company man to verify plug went downhole
16	11/02/2018 11:54	Pump Displacement	9.2000	4.00	162.00	250.00	Pump 162 bbls of OBM displacement
17	11/02/2018 11:58	Cement Back-to-Surface	8.3300	4.00	54.00	580.00	54 bbls into displacement got cement to surface for total of 98 bbls
18	11/02/2018 12:39	Land Plug			162.00	1,226.00	Bump plug to 1226 PSI, FCP of 490 PSI
19	11/02/2018 12:40	Check Floats					Hold for ten mins and check floats. Got .5 bbl back to pump truck... Customer requested crew stay on location for additional hour to watch cement incase for top of

EVENT LOG



20	11/02/2018 12:50	STEACS Briefing					BJ crew has steacs over rigging down iron and hoses
21	11/02/2018 13:00	Rig Down					Bj crew rigs down iron and hoses
22	11/02/2018 13:55	Leave Location					Bj crew has journey management and departs from location



JobMaster Program Version 4.02C1

Job Number:

Customer: Clear Creek

Well Name: True RanchFee 502-2326H

