FIELD TICKET

Client

MERIT ENERGY COMPANY

Well

HMU 208W

Job Description

Surface

Date

November 22, 2017

BJ

Field Ticket # FT-01159-G0B7Z70202-08152

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100120	EXTENDER, BENTONITE	LB	1,880.0000	\$2.08	\$3,910.40	76.00	\$938.50
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	940.0000	\$0.72	\$676.80	76.00	\$162.43
L100275	CEMENT EXTENDER, SODIUM METASILICATE, A-2	LB	940.0000	\$3.28	\$3,083.20	76.00	\$739.97
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	1,739.0000	\$2.40	\$4,173.60	76.00	\$1,001.66
L100295	IntegraSeal CELLO	LB	338.0000	\$5.76	\$1,946.88	76.00	\$467.25
L013156	Cement Nose, 8-5/8 in.	EA	1.0000	\$460.00	\$460.00	76.00	\$110.40
L016033	Float Collars with aluminum flapper, 8-5/8 in.	EA	1.0000	\$1,214.00	\$1,214.00	76.00	\$291.36
L017068	CENTRALIZER,8-5/8"NON- WELD	EA	10.0000	\$246.40	\$2,464.00	76.00	\$591.36
L86718	PLUG,CEMENT 8.6 TOP BJPL	EA	1.0000	\$287.04	\$287.04	76.00	\$68.89
L015399	Float collars with poppet valve, 8-5/8 in.	EA	1.0000	\$0.00	\$0.00	76.00	\$0.00
L488168	CEMENT, ASTM TYPE I	SK	675.0000	\$44.11	\$29,774.25	76.00	\$7,145.82
L100404	SALT, SODIUM CHLORIDE, A-5	LB	1,227.0000	\$1.04	\$1,276.08	76.00	\$306.26
		F	Product Materi	al Subtotal:	\$49,266.25		\$11,823.90

SERVICES

Product Code	Description	иом	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100049	Cement pump charge, 1,001-2,000 feet/ 301-600 m	4/HR	1.00	\$4,680.00	\$4,680.000	91.00	\$421.200
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.000	91.00	\$239.040
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	91.00	\$48.240
S-100001	Mileage - vehicle heavy weight	МІ	50.00	\$18.96	\$948.000	91.00	\$85.320
S-100004	Cement Crew Mobilization- Demobilizaton Fee	EA	1.00	\$10,880.00	\$10,880.000	91.00	\$979.200

FIELD TICKET

2.00

Client

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Surface

50.00

Date

November 22, 2017

Field Ticket # FT-01159-G0B7Z70202-08152

\$20,580.00

10300801

Cement Pumping, Additional | HR

\$880.000

hrs

\$440.00

Service Subtotal:

\$2,213.00

\$440.000



Start Date

11/22/2017

Well

HMU 208W

End Date

11/22/2017

County

Finney

Client

MERIT ENERGY COMPANY

State/Province

KS

Client Field Rep

Rodney Gonsalez

API

15-055-22471

Service Supervisor

Field Ticket No.

8.625" Surface

Rig

District

Liberal, KS

Type of Job

Formation

Surface

WELL GEOMETRY

Туре	(D (in)	OD (in)	Wt. (lþ/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25			1,837.00	1,837.00	0.00		
Open Hole	12.25			1,328.00	1,328.00	130.00		
Casing	8.10	8.63	24.00	1,827.00	1,827.00		J-55	LTC

Shoe Length (ft):

42

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Bottom Plug Provided By		Tool Depth (ft)	
Sottom Plug Size		Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	Bi	Max Cacing Proceurs - Pated (mil)	2,950.00
Top Plug Size	8.625	Max Casing Pressure - Operated (psi)	2,350.00
Controlizors Used	Yes	Pipe Meyement	
Centralizers Quantity	10.00	Job Pumped Through	Manifold
Centralizer: Tyro	Bow	Ten Connection Thread	LTC
Landing Collar Donth (ft)	1,784	Top Connection Size	8.625

CIRCULATION PRIOR TO JOS



Well Circulated By

Rig

Solids Present at End of Circulation No

Circulation Prior to Job

Yes

10 sec SGS

Circulation Time (min)

45.00

10 min SGS

Circulation Rate (bpm)

6.00

30 min SGS

Circulation Volume (bbls)

Flare Prior to/during the Cement

Job

Lost Circulation Prior to Cement

No

Gas Present

No

Νo

Job Mud Density In (ppg)

Gas Units

Mud Density Out (ppg)

PV Mud In

PV Mud Out

YP Mud In

YP Mud Out

TEMPERATURE

Ambient Temperature (°F)

26.00

Slurry Cement Temperature (°F)

50.00

Mix Water Temperature (°F)

45.00

Flow Line Temperature (°F)

56.00

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Lead Slurry	Multi Density Cement	12.1000	2.5410	14.71	500	1,260.0000	224.3000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	175	222.0000	39.4000

Fluid Type	Fluid Name	Comp <u>onent</u>	Concentration UOM
Lead Slurry	Multi Density Cement	CEMENT, ASTM TYPE I	100.00 PCT
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.00 BWOB
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	2.00 BWOB



Lead Slurry	Multi Density Cement	CEMENT EXTENDER, SODIUM METASILICATE, A-2	2.00	BWOB
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.00	BWOW
Lead Slurry	Multi Density Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A- 7P, PELLETS	3.00	BWOB
Lead Slurry	Multi Density Cement	IntegraSeal CELLO	0.50	LBS/SK
Tail Slurry	Class A Cement	CEMENT, ASTM TYPE I	100.00	PCT
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A- 7P, PELLETS	2.00	вwов
Tail Slurry	Class A Cement	IntegraSeal CELLO	0.50	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	0.00	224.30			
	Class A Cement	0.00	39.40			

	Min	Max	Avg
Pressure (psi)	0.00	2,000.00	350.00
Rate (bpm)	3.00	8.00	5.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	ВЈ	Amount of Cement Returned/Reversed	80.00
Calculated Displacement Volume (bbls)	113.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	113.00	Amount of Spacer to Surface	10.00
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)	900.00	Total Volume Pumped (bbls)	379.00
Were Returned Planned at Surface	Yes	Top Out Cement Spotted	No



Lost Circulation During Cement Job Cement returns During Job Full No **CEMENT PLUG Bottom of Cement Plug?** Wiper Balls Used? No No **Wiper Ball Quantity Plug Catcher** No **Number of Plugs SQUEEZE** Injection Rate (bpm) Fluid Density (ppg) Injection Pressure (psi) ISIP (psi) **Type of Squeeze** FSIP (psi) Operators Max SQ Pressure (psi) **COMMENTS**

Treatment Report

Job Summary

pressure test to 3000PSI 10bbls of spacer fresh water 226bbls of lead cement 39bbls of tail cement 113bbls of displacement land plug @ 900PSI