

FIELD TICKET

Client MERIT ENERGY COMPANY

Well Staley East 1-22

Job Description Surface

Date January 28, 2018

Field Ticket # FT-03143-R1K9X90202-54040



MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L488168	CEMENT, ASTM TYPE I	SK	650.0000	\$44.11	\$28,671.50	76.00	\$6,881.16
L415082	IntegraSeal KOL	LB	2,375.0000	\$1.20	\$2,850.00	76.00	\$684.00
L100404	SALT,SODIUM CHLORIDE, A-5	LB	1,151.0000	\$1.04	\$1,197.04	76.00	\$287.29
L100120	EXTENDER, BENTONITE	LB	1,786.0000	\$2.08	\$3,714.88	76.00	\$891.58
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	893.0000	\$0.72	\$642.96	76.00	\$154.32
L015399	Float collars with poppet valve, 8-5/8 in.	EA	1.0000	\$0.00	\$0.00	0.00	\$0.00
L100275	CEMENT EXTENDER, SODIUM METASILICATE, A-2	LB	893.0000	\$3.28	\$2,929.04	76.00	\$702.97
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	1,669.0000	\$2.40	\$4,005.60	76.00	\$961.35
L100295	IntegraSeal CELLO	LB	325.0000	\$5.76	\$1,872.00	76.00	\$449.28
L017120	BASKET,CEM,08.625" METAL	EA	1.0000	\$885.50	\$885.50	76.00	\$212.52
L013156	Cement Nose, 8-5/8 in.	EA	1.0000	\$460.00	\$460.00	76.00	\$110.40
L017068	CENTRALIZER,8-5/8"NON-WELD	EA	10.0000	\$246.40	\$2,464.00	76.00	\$591.36
L016033	Float Collars with aluminum flapper, 8-5/8 in.	EA	1.0000	\$1,214.00	\$1,214.00	76.00	\$291.36
LB6718	PLUG,CEMENT 8.6 TOP BJPL	EA	1.0000	\$287.04	\$287.04	76.00	\$68.89
Product Material Subtotal:					\$51,193.56		\$12,286.48

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization-Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.00	91.00	\$979.200
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.00	91.00	\$239.040
S-100049	Cement pump charge, 1,001-2,000 feet/ 301-600 m	4/HR	1.00	\$4,680.00	\$4,680.00	91.00	\$421.200

Cementing Treatment



Start Date	1/27/2018	Well	Staley East 1-22
End Date	1/28/2018	County	Stevens
Client	MERIT ENERGY COMPANY	State/Province	KS
Client Field Rep	Rodney Gonzales	API	15-055-22476
Service Supervisor		Formation	
Field Ticket No.		Rig	
District	Liberal, KS	Type of Job	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25			1,777.00	1,777.00	130.00		
Casing	8.10	8.63	24.00	1,767.00	1,767.00		J 55	LTC
Open Hole	12.25			1,777.00	1,777.00	0.00		

Shoe Length (ft): 41

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Bottom Plug Provided By		Tool Depth (ft)	1,725.78
Bottom Plug Size		Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	BJ	Max Casing Pressure - Rated (psi)	
Top Plug Size	8.625	Max Casing Pressure - Operated (psi)	
Centralizers Used	Yes	Pipe Movement	
Centralizers Quantity	8.00	Job Pumped Through	No Manifold
Centralizers Type	Bow	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,726	Top Connection Size	8.625

CIRCULATION PRIOR TO JOB

Cementing Treatment



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)	7.00	30 min SGS	
Circulation Volume (bbls)		Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
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)	30.00	Slurry Cement Temperature (°F)	52.00
Mix Water Temperature (°F)	50.00	Flow Line Temperature (°F)	53.00

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	2.5793	14.53	475	1,205.0000	214.5000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	175	222.0000	39.4000
Displacement Final	Displacement	8.3400				0.0000	110.1000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.0000	BWOW
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, SODIUM METASILICATE,	2.0000	BWOB

Cementing Treatment



A-2

Lead Slurry	Multi Density Cement	IntegraSeal KOL	5.0000 LBS/SK
Lead Slurry	Multi Density Cement	CEMENT, ASTM TYPE I	100.0000 PCT
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	2.0000 BWOB
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.0000 BWOB
Lead Slurry	Multi Density Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.0000 BWOB
Lead Slurry	Multi Density Cement	IntegraSeal CELLO	0.5000 LBS/SK
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000 BWOB
Tail Slurry	Class A Cement	CEMENT, ASTM TYPE I	100.0000 PCT
Tail Slurry	Class A Cement	IntegraSeal CELLO	0.5000 LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	0.00	214.50			
	Class A Cement	0.00	39.40			
	Displacement	0.00	110.10			

	Min	Max	Avg
Pressure (psi)	0.00	3,000.00	200.00
Rate (bpm)	3.00	7.50	7.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	50.00
Calculated Displacement Volume (bbls)	109.93	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	109.93	Amount of Spacer to Surface	10.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00