

# FIELD TICKET

**Client** MERIT ENERGY COMPANY  
**Well** 15-055-20387-0001  
**Job Description** Squeeze-Hole - Existing Well  
**Date** March 23, 2018



**Field Ticket #** FT-04984-K1B4G70202-00871

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**Field Ticket #** FT-04984-K1B4G70202-00871      **Credit Approval #**  
**Client** MERIT ENERGY COMPANY      **Purchase Approval #**  
PO BOX 1293, LIBERAL, 67905-1293      **Invoice #**

**Field Rep** Victor Corona-Marta      **Well** 15-055-20387-0001  
**Field Client Rep** Martin Aragon      **Well API #** 15-055-20387-0001  
**District** Liberal, KS      **Well Type**  
**Job Type** Squeeze-Hole - Existing Well      **Well Classification**  
**Job Depth (ft)** 0.00      **County** USA  
**Gas Used On Job** No      **State/Province** KS

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**Field** STALEY  
**Lease** Staley

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## MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100022	CEMENT, CLASS H	SK	200.0000	\$50.27	\$10,054.00	45.00	\$5,529.70
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	100.0000	\$2.40	\$240.00	45.00	\$132.00
<b>Product Material Subtotal:</b>					<b>\$10,294.00</b>		<b>\$5,661.70</b>

## 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	90.00	\$1,088.000
S-100051	Cement pump charge, 3,001-4,000 feet/901-1,200 m	6/HR	1.00	\$5,472.00	\$5,472.00	90.00	\$547.200
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	90.00	\$94.800
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	90.00	\$53.600
<b>Service Subtotal:</b>					<b>\$17,836.00</b>		<b>\$1,783.60</b>

# FIELD TICKET

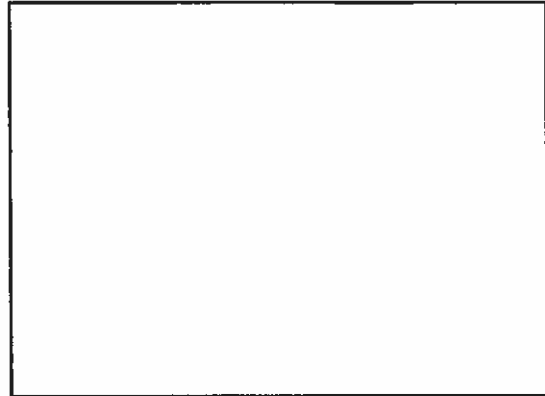
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## FIELD ESTIMATES

**TOTAL GROSS AMOUNT** \$28,130.000  
**TOTAL % DISC** 73.533%  
**TOTAL NET AMOUNT** \$7,445.300



**Arrive Location**  
**Client Rep.**

### Service Order

I authorize work to begin per service instructions in accordance with the terms and conditions printed on the following pages of this form and represent that I have authority to accept and sign this order.

### Service receipt

I certify that the materials and services listed were received and all services performed in a workmanlike manner.

**BJ REPRESENTATIVE**

Victor Corona-Marta

**CLIENT AUTHORIZED AGENT**

Martin Aragon

# Cementing Treatment



<b>Start Date</b>	3/23/2018	<b>Well</b>	15-055-20387-0001
<b>End Date</b>	3/23/2018	<b>County</b>	
<b>Client</b>	MERIT ENERGY COMPANY	<b>State/Province</b>	KS
<b>Client Field Rep</b>	Martin Aragon	<b>API</b>	15-055-20387-0001
<b>Service Supervisor</b>		<b>Formation</b>	
<b>Field Ticket No.</b>		<b>Rig</b>	
<b>District</b>	Liberal, KS	<b>Type of Job</b>	Squeeze-Hole - Existing Well

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Casing	4.95	5.50	15.50	300.00	300.00			
Tubing	2.44	2.88	6.50	250.00	250.00			

Shoe Length (ft):

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>	Cement Retainer
<b>Bottom Plug Provided By</b>		<b>Tool Depth (ft)</b>	3,204.00
<b>Bottom Plug Size</b>		<b>Max Tubing Pressure - Rated (psi)</b>	
<b>Top Plug Used?</b>	No	<b>Max Tubing Pressure - Operated (psi)</b>	
<b>Top Plug Provided By</b>		<b>Max Casing Pressure - Rated (psi)</b>	
<b>Top Plug Size</b>		<b>Max Casing Pressure - Operated (psi)</b>	
<b>Centralizers Used</b>	No	<b>Pipe Movement</b>	None
<b>Centralizers Quantity</b>		<b>Job Pumped Through</b>	Squeeze Manifold
<b>Centralizers Type</b>		<b>Top Connection Thread</b>	Itc
<b>Landing Collar Depth (ft)</b>	3,204	<b>Top Connection Size</b>	2.875

## CIRCULATION PRIOR TO JOB

# Cementing Treatment



<b>Well Circulated By</b>	BJ	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Prior to Job</b>	Yes	<b>10 sec SGS</b>	
<b>Circulation Time (min)</b>		<b>10 min SGS</b>	
<b>Circulation Rate (bpm)</b>		<b>30 min SGS</b>	
<b>Circulation Volume (bbls)</b>		<b>Flare Prior to/during the Cement Job</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Present</b>	No
<b>Mud Density In (ppg)</b>		<b>Gas Units</b>	
<b>Mud Density Out (ppg)</b>			
<b>PV Mud In</b>			
<b>PV Mud Out</b>			
<b>YP Mud In</b>			
<b>YP Mud Out</b>			

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	85.00	<b>Slurry Cement Temperature (°F)</b>	85.00
<b>Mix Water Temperature (°F)</b>	75.00	<b>Flow Line Temperature (°F)</b>	

## 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)
Tail Slurry	Tail Cement	15.6000	1.1966	5.24		0.00	200	240.0000	42.7000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	Tail Cement	CEMENT, CLASS H	100.0000	PCT
Tail Slurry	Tail Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	BWOB

# Cementing Treatment



## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Tail Cement	3.00	42.70			

	Min	Max	Avg
Pressure (psi)	0.00	2,500.00	500.00
Rate (bpm)	0.50	3.00	2.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	
Calculated Displacement Volume (bbls)	18.50	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	18.50	Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	
Bump Plug	No	Amount Bled Back After Job	
Bump Plug Pressure (psi)	1,100.00	Total Volume Pumped (bbls)	
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job		Lost Circulation During Cement Job	No

## CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

## SQUEEZE

Injection Rate (bpm)	1.500	Fluid Density (ppg)	15.60
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# Cementing Treatment



Injection Pressure (psi)	800.000	ISIP (psi)
Type of Squeeze		FSIP (psi)
Operators Max SQ Pressure (psi)	2,500.00	

## COMMENTS

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### Treatment Report

42bbls of tail cement  
18.5bbls of displacement

### Job Summary

establish barrel rate  
pumped 31bbls of tail cement from 150sacks at 15.6lbs  
pumped 10bbls of tail cement from 50sacks with CC at 15.6lbs  
displacement of 18.5bbls  
reverse out with total of 25bbls