FIELD TICKET

Client	MERIT ENERGY COMPANY
Well	Unruh 1-7
Job Description	Plug & Abandon
Date	January 24, 2018

Field Ticket # FT-03053-X6F6K90202-32186

Field Ticket #	FT-03053-X6F6K90202-32186	**Credit Approval #**	
Client	MERIT ENERGY COMPANY	**Purchase Approval #**	
	PO BOX 1293, LIBERAL, 67905-1293	**Invoice #**	

Field Rep	Hector Esqueda-Rivera	**Well**	Unruh 1-7
Field Client Rep	Rodney Gonzales	**Well API #**	15-081-22170
District	Liberal, KS	**Well Type**	
Job Type	Plug & Abandon	**Well Classification**	
Job Depth (ft)	0.00	**County**	USA
Gas Used On Job	No	**State/Province**	KS
		Field	
		Lease	

FIELD TICKET

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Well Unruh 1-7

Job Description Plug & Abandon

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MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L488168	CEMENT, ASTM TYPE I	SK	96.0000	$44.11	$4,234.56	62.00	$1,609.13
L100317	CEMENT, FLY ASH (POZZOLAN)	SK	64.0000	$25.68	$1,643.52	62.00	$624.54
L100120	EXTENDER, BENTONITE	LB	551.0000	$2.08	$1,146.08	62.00	$435.51
L100295	IntegraSeal CELLO	LB	40.0000	$5.76	$230.40	62.00	$87.55
				Product Material Subtotal:	**$7,254.56**		**$2,756.73**

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization-Demobilizaton Fee	EA	1.00	$10,880.00	$10,880.000	90.00	$1,088.000
S-100049	Cement pump charge, 1,001-2,000 feet/ 301-600 m	4/HR	1.00	$4,680.00	$4,680.000	90.00	$468.000
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
				Service Subtotal:	**$17,044.00**		**$1,704.40**

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FIELD ESTIMATES

TOTAL GROSS AMOUNT	$24,298.560
TOTAL % DISC	81.640%
TOTAL NET AMOUNT	$4,461.130

Arrive Location

Client Rep.

Well Unruh 1-7
AFE 260576
GL 83001075
Office Sublette
Date 1-24-18

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

Hector Esqueda-Rivera

CLIENT AUTHORIZED AGENT

Rodney Gonzales

Cementing Treatment

Start Date	1/24/2018	**Well**	Unruh 1-7
End Date	1/24/2018	**County**	Haskell
Client	MERIT ENERGY COMPANY	**State/Province**	KS
Client Field Rep	Rodney Gonzales	**API**	15-081-22170
Service Supervisor		**Formation**	
Field Ticket No.		**Rig**	
District	Liberal, KS	**Type of Job**	Plug & Abandon

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread

Shoe Length (ft):

HARDWARE

Bottom Plug Used?	No	**Tool Type**	
Bottom Plug Provided By		**Tool Depth (ft)**	
Bottom Plug Size		**Max Tubing Pressure - Rated (psi)**	
Top Plug Used?	No	**Max Tubing Pressure - Operated (psi)**	
Top Plug Provided By		**Max Casing Pressure - Rated (psi)**	
Top Plug Size		**Max Casing Pressure - Operated (psi)**	
Centralizers Used	No	**Pipe Movement**	
Centralizers Quantity		**Job Pumped Through**	
Centralizers Type		**Top Connection Thread**	
Landing Collar Depth (ft)		**Top Connection Size**	

CIRCULATION PRIOR TO JOB

Well Circulated By		**Solids Present at End of Circulation**	No
Circulation Prior to Job	No	**10 sec SGS**	
Circulation Time (min)		**10 min SGS**	

Cementing Treatment

Circulation Rate (bpm)		**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)	15.00	**Slurry Cement Temperature (°F)**	55.00
Mix Water Temperature (°F)	54.00	**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)
Tail Slurry	Plug 1	13.8000	1.3684	6.59	50		
Tail Slurry	Plug 3	13.8000	1.4039	6.79	20		
Tail Slurry	Plug 2	13.8000	1.3684	6.59	40		
Tail Slurry	Mouse hole Plug	13.8000	1.3684	6.59	50		

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	Plug 1	CEMENT, ASTM TYPE I	60.0000	PCT
Tail Slurry	Plug 1	EXTENDER, BENTONITE	4.0000	LBS/SK
Tail Slurry	Plug 3	IntegraSeal CELLO	0.2500	LBS/SK
Tail Slurry	Plug 3	EXTENDER, BENTONITE	4.0000	LBS/SK
Tail Slurry	Plug 2	EXTENDER, BENTONITE	4.0000	LBS/SK

Tail Slurry	Plug 2	IntegraSeal CELLO	0.2500	LBS/SK
Tail Slurry	Plug 2	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Tail Slurry	Mouse hole Plug	BJ 40/60/4 POZ BLEND - CLASS A	100.0000	PCT
Tail Slurry	Plug 1	IntegraSeal CELLO	0.2500	LBS/SK
Tail Slurry	Plug 1	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Tail Slurry	Plug 3	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Tail Slurry	Plug 3	CEMENT, ASTM TYPE I	60.0000	PCT
Tail Slurry	Plug 2	CEMENT, ASTM TYPE I	60.0000	PCT
Tail Slurry	Mouse hole Plug	IntegraSeal CELLO	0.2500	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments

	Min	Max	Avg
Pressure (psi)	0.00	250.00	150.00
Rate (bpm)	3.00	6.00	5.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By		**Amount of Cement Returned/Reversed**	
Calculated Displacement Volume (bbls)		**Method Used to Verify Returns**	
Actual Displacement Volume (bbls)		**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)		**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

Cementing Treatment

Bottom of Cement Plug?	No	**Wiper Balls Used?**	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

1st plug
50sks 12.11bbl/slurry
22.1bbl displacement with mud
2nd plug
40sks 9.68bbl/slurry
9.8bbl displacement with water
3rd plug
20sks 4.84bbl/slurry
to surface
plug RAT/MOUSE holes