

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Ellsaesser 2
Job Description Squeeze-Hole - Existing Well
Print Date May 16, 2018



Field Ticket # FT-06812-D2D8Z50202-09304

Field Ticket # FT-06812-D2D8Z50202-09304 **Credit Approval #**
Client MERIT ENERGY COMPANY **Purchase Approval #**
PO BOX 1293, LIBERAL, 67905-1293 **Invoice #**

Field Rep	Erik Chavez	Well	Ellsaesser 2
Field Client Rep	Martin Aregon	Well API #	15-081-20310
District	Liberal, KS	County	USA
Job Type	Squeeze-Hole - Existing Well	State/Province	KS
Job Depth (ft)	0.00	Field	LEMON NORTHEAST
Gas Used On Job	No	Lease	Ellsaesser

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MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	235.0000	\$2.40	\$564.00	45.00	\$310.20
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	564.0000	\$0.72	\$406.08	45.00	\$223.34
L100022	CEMENT, CLASS H, HSR	SK	300.0000	\$50.27	\$15,081.00	45.00	\$8,294.55
L100120	EXTENDER, BENTONITE	LB	188.0000	\$2.08	\$391.04	45.00	\$215.07
L100404	SALT,SODIUM CHLORIDE, A-5	LB	485.0000	\$1.04	\$504.40	45.00	\$277.42
Product Material Subtotal:					\$16,946.52		\$9,320.58

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	\$10,880.000	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	\$5,472.000	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
Service Subtotal:					\$17,836.00		\$1,783.60

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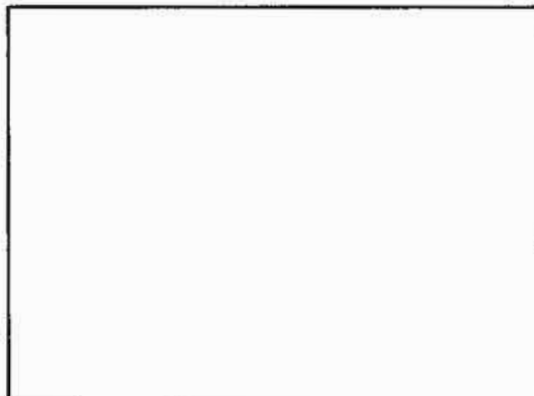
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FIELD ESTIMATES

TOTAL GROSS AMOUNT \$34,782.520
TOTAL % DISC 68.075%
TOTAL NET AMOUNT \$11,104.180

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

Erik Chavez

CLIENT AUTHORIZED AGENT

Martin Aregon

Cementing Treatment



Start Date	5/16/2018	Field Ticket#	
End Date	5/16/2018	Well	Ellsaesser 2
Client	MERIT ENERGY COMPANY	API#	15-081-20310
Client Field Rep.	Martin Aregon	Well Classification	
Service Sup.	Erik Chavez	County	
District	Liberal, KS	State/Province	KS
Type of Job	Squeeze-Hole - Existing Well	Formation	
Execution ID	EXC-06812-D2D8Z502	Rig	
Project ID	PRJ1006846		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Casing	4.95	5.50	15.50	4228.00	4228.00			
Tubing	2.44	2.88	6.50	4147.00	4147.00			

Shoe Length (ft):

HARDWARE

Bottom Plug Used?	No	Tool Type	Cement Retainer
Bottom Plug Provided By		Tool Depth (ft)	4,147.00
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	None
Centralizers Quantity		Job Pumped Through	Squeeze Manifold
Centralizers Type		Top Connection Thread	8rd
Landing Collar Depth (ft)	4,147	Top Connection Size	2.875

CIRCULATION PRIOR TO JOB

Well Circulated By		Solids Present at End of Circulation	No
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Cementing Treatment



Circulation Prior to Job No **10 sec SGS**
Circulation Time (min) **10 min SGS**
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) 78.00 **Slurry Cement Temperature (°F)**
Mix Water Temperature (°F) 64.00 **Flow Line Temperature (°F)**

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)
Lead Slurry	Thixo Lead	15.6000	1.3270	5.81		0.00	100	133.0000	23.7000
Tail Slurry	Tail Cement	15.6000	1.1881	5.24		0.00	250	298.0000	53.1000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Thixo Lead	EXTENDER, BENTONITE	2.0000	BWOB
Lead Slurry	Thixo Lead	CEMENT, CLASS H, HSR	100.0000	PCT
Lead Slurry	Thixo Lead	SALT,SODIUM CHLORIDE, A-5	10.0000	BWOW
Lead Slurry	Thixo Lead	CEMENT EXTENDER, GYPSUM, A-10	6.0000	BWOB
Tail Slurry	Tail Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	1.0000	BWOB
Tail Slurry	Tail Cement	CEMENT, CLASS H, HSR	100.0000	PCT

TREATMENT SUMMARY

Cementing Treatment



Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
5/16/2018 1:26 PM	Thixo Lead	2.20	23.70	0.00		
5/16/2018 1:59 PM	Tail Cement	1.20	33.00	1,038.00		
			Min	Max	Avg	
Pressure (psi)			0.00	1,038.00	0.00	
Rate (bpm)			1.20	2.20	1.70	

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?	No	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amount Bled Back After Job	
Bump Plug Pressure (psi)		Total Volume Pumped (bbls)	111.00
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)	2.200	Fluid Density (ppg)	8.40
Injection Pressure (psi)	0.000	ISIP (psi)	0.00
Type of Squeeze	Block	FSIP (psi)	850.00
Operators Max SQ Pressure (psi)	1,500.00		

COMMENTS

Treatment Report

Cementing Treatment



Job Summary

Prime Lines 2 bbls
Pressure Test 1500 psi
Pressure Backside 500 psi
Injection Test 10 bbls
LCmt 100 sks @ 15.6 ppg / 23.633 bbls
TCmt 250 sks / 1% CC @ 15.6 ppg / 52.90 bbls
Shutdown/WashEquipment
Displacement / Hesitation per customer
Retainer=24.011 bbls
Top= 2.868 / 26.879 bbls
Btm= 3.2724 / 27.283 bbls
Sting out 8ft
Reverse out 50 bbls Fresh H2O

- 1. Prime Lines 2 bbls**
- 2. Pressure Test 1500 psi**
- 3. Pressure up back side 500 psi**
- 4. Injection test 10 bbls**
- 5. LCmt 100 sks @ 15.6 ppg / 23.633 bbls**
- 6. TCmt 250 sks / CC @ 15.6 / 52.90 bbls**
- 7. Shutdown wash equipment**
- 8. Displacement / Hestitation per customer**
Retainer = 24.011
Top = 2.868 / 26.879
Btm = 3.2724 / 27.283
- 9. Sting out 8ft**
- 10. Reverse out 50 bbls**