

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Conductor
Print Date August 29, 2018



Field Ticket # FT-10489-F8M1F90202-17210

Field Ticket # FT-10489-F8M1F90202-17210
Client MERIT ENERGY COMPANY
PO BOX 1293, LIBERAL, 67905-1293

Credit Approval #
Purchase Approval #
Invoice #

Field Rep Aldo Espinoza Galindo
Field Client Rep RODNEY GONSALES
District Liberal, KS
Job Type Conductor
Job Depth (ft) 126.00
Gas Used On Job No

Well Circle 28-2
Well API # 15-055-22496
County Finney
State/Province KS
Field
Lease

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Conductor
Print Date August 29, 2018



Field Ticket # FT-10489-F8M1F90202-17210

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	508.0000	\$2.40	\$1,219.20	55.00	\$548.64
L488168	CEMENT, ASTM TYPE I	SK	180.0000	\$44.11	\$7,939.80	55.00	\$3,572.91
L100295	IntegraSeal CELLO	LB	90.0000	\$5.76	\$518.40	55.00	\$233.28
Product Material Subtotal:					\$9,677.40		\$4,354.83

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	91.00	\$979.200
S-100048	Cement pump charge, 0-1,000 feet/ 0-300 m	4/HR	1.00	\$3,072.00	\$3,072.000	91.00	\$276.480
S-100072	Circulating Equipment	JOB	1.00	\$5,248.00	\$5,248.000	91.00	\$472.320
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	91.00	\$85.320
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	91.00	\$48.240
S-100066	Cement pump charge, Additional Hours	HR	3.00	\$2,720.00	\$8,160.000	91.00	\$734.400
Service Subtotal:					\$28,844.00		\$2,595.96

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Conductor
Print Date August 29, 2018



Field Ticket # FT-10489-F8M1F90202-17210

FIELD ESTIMATES

TOTAL GROSS AMOUNT	\$38,521.400
TOTAL % DISC	81.956%
TOTAL NET AMOUNT	\$6,950.790

Arrive Location

Client Rep.

Well	Circle 28-2
AFE	61991
GL	83001075
Office	Garden City
Date	8-29-18

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

Aldo Espinoza Galindo

CLIENT AUTHORIZED AGENT

RODNEY GONSALES

Cementing Treatment



Start Date	8/29/2018	Field Ticket#	
End Date	8/29/2018	Well	Circle 28-2
Client	MERIT ENERGY COMPANY	API#	15-055-22496
Client Field Rep.	RODNEY GONSALES	Well Classification	
Service Sup.	Aldo Espinoza Galindo	County	Finney
District	Liberal, KS	State/Province	KS
Type of Job	Conductor	Formation	
Execution ID	EXC-10489-F8M1F902	Rig	
Project ID	PRJ1010259		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	17.50			126.00	126.00	100.00		
Casing	12.72	13.38	48.00	121.00	126.00		H-40	LTC

Shoe Length (ft): 20

HARDWARE

Bottom Plug Used?	No	Tool Type	Swege
Bottom Plug Provided By		Tool Depth (ft)	0.00
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)	1,730.00
Top Plug Size		Max Casing Pressure - Operated (psi)	300.00
Centralizers Used	No	Pipe Movement	None
Centralizers Quantity		Job Pumped Through	No Manifold
Centralizers Type		Top Connection Thread	LTC
Landing Collar Depth (ft)	106	Top Connection Size	13.375

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)	1.00	10 min SGS	
Circulation Rate (bpm)	7.00	30 min SGS	
Circulation Volume (bbbls)	50.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No

Cementing Treatment



Mud Density In (ppg) 9.00 **Gas Units**
Mud Density Out (ppg) 9.00
PV Mud In
PV Mud Out
YP Mud In
YP Mud Out

TEMPERATURE

Ambient Temperature (°F) 61.00 **Slurry Cement Temperature (°F)** 68.00
Mix Water Temperature (°F) 65.00 **Flow Line Temperature (°F)** 68.00

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	1.2078	5.23	0.00	126.00	180	193.0000	34.3000
Displacement Final	Displacement	8.3400			0.00			0.0000	16.6000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	Tail Cement	CEMENT, ASTM TYPE I	100.0000	PCT
Tail Slurry	Tail Cement	IntegraSeal CELLO	0.5000	LBS/SK
Tail Slurry	Tail Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.0000	BWOB

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Tail Cement	0.00	38.60			
	Displacement	0.00	15.60			
			Min		Max	Avg
	Pressure (psi)		0.00		200.00	30.00
	Rate (bpm)		1.00		5.00	3.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By BJ **Amount of Cement Returned/Reversed** 20.00
Calculated Displacement Volume (bbls) 15.70 **Method Used to Verify Returns** Visual

Cementing Treatment



Actual Displacement Volume (bbls)	15.70	Amount of Spacer to Surface	0.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	30.00
Bump Plug	No	Amount Bled Back After Job	0.00
Bump Plug Pressure (psi)		Total Volume Pumped (bbls)	54.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	Yes
Cement returns During Job	Full	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)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	
Operators Max SQ Pressure (psi)			

COMMENTS

Treatment Report

PUMP 180 SK / 38 BBL OF SLURRY AT 15.6 #/g
DISPLACE 15.7 BBL WATER TO LEAVE 20 F OF CEMENT ON CASING
SHUT IT IN
20 BBL OF CEMENT BACK TO SURFACE
THANKS

Job Summary

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Surface
Print Date August 30, 2018



Field Ticket # FT-10520-Q9D4K80201-2056103806

Field Ticket # FT-10520-Q9D4K80201-2056103806 **Credit Approval #**
Client MERIT ENERGY COMPANY **Purchase Approval #**
PO BOX 1293, LIBERAL, 67905-1293 **Invoice #**

Field Rep	Edgar Rodriguez	Well	Circle 28-2
Field Client Rep	Rodney Gonzales	Well API #	15-055-22496
District	Liberal, KS	County	Finney
Job Type	Surface	State/Province	KS
Job Depth (ft)	1,787.00	Field	
Gas Used On Job	No	Lease	

FIELD TICKET

Client MERIT ENERGY COMPANY

Well Circle 28-2

Job Description Surface



Print Date August 30, 2018

Field Ticket # FT-10520-Q9D4K80201-2056103806

S-100004	Cement Crew Mobilization- Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.000	91.00	979.200
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	91.00	85.320
				Service Subtotal:	\$33,108.00		\$2,979.72

FIELD TICKET

Client MERIT ENERGY COMPANY

Well Circle 28-2

Job Description Surface

Print Date August 30, 2018

Field Ticket # FT-10520-Q9D4K80201-2056103806



MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L013156	Cement Nose, 8-5/8 in.	EA	1.0000	\$460.00	\$460.00	43.00	\$262.20
L100295	IntegraSeal CELLO	LB	323.0000	\$5.76	\$1,860.48	76.00	\$446.52
L86718	PLUG,CEMENT 8.6 TOP	EA	1.0000	\$287.04	\$287.04	76.00	\$68.89
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	884.0000	\$0.72	\$636.48	76.00	\$152.76
L100120	EXTENDER, BENTONITE	LB	1,768.0000	\$2.08	\$3,677.44	76.00	\$882.59
L017068	CENTRALIZER,8-5/8NON- WELD	EA	10.0000	\$246.40	\$2,464.00	76.00	\$591.36
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	1,655.0000	\$2.40	\$3,972.00	76.00	\$953.28
L100275	Cement Additive, Sodium Metasilicate A-2	LB	884.0000	\$3.28	\$2,899.52	76.00	\$695.88
1000080	FLOAT COLLAR, 8-5/8 IN	EA	1.0000	\$2,650.00	\$2,650.00	76.00	\$636.00
L488168	CEMENT, ASTM TYPE I	SK	645.0000	\$44.11	\$28,450.95	76.00	\$6,828.23
L100404	SALT,SODIUM CHLORIDE, A-5	LB	1,139.0000	\$1.04	\$1,184.56	76.00	\$284.29
L415082	IntegraSeal KOL	LB	2,350.0000	\$1.20	\$2,820.00	76.00	\$676.80
Product Material Subtotal:					\$51,362.47		\$12,478.79

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.000	91.00	239.040
S-100049	Cement pump charge, 1,001-2,000 feet/ 301-600 m	4/HR	1.00	\$4,680.00	\$4,680.000	91.00	421.200
S-100066	Cement pump charge, Additional Hours	HR	3.00	\$2,720.00	\$8,160.000	91.00	734.400
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	91.00	48.240
S-100072	Circulating Equipment	JOB	1.00	\$5,248.00	\$5,248.000	91.00	472.320

FIELD TICKET

Client MERIT ENERGY COMPANY

Well Circle 28-2

Job Description Surface

Print Date August 30, 2018

Field Ticket # FT-10520-Q9D4K80201-2056103806



FIELD ESTIMATES

TOTAL GROSS AMOUNT \$84,470.470

TOTAL % DISC 81.700%

TOTAL NET AMOUNT \$15,458.513

Arrive Location

Client Rep.

Well	Circle 28-2
AFE	61991
GL	83001075
Office	Garden City
Date	8-30-18

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

Edgar Rodriguez

CLIENT AUTHORIZED AGENT

Rodney Gonzales

Cementing Treatment



Start Date	8/30/2018	Field Ticket#	
End Date	8/30/2018	Well	Circle 28-2
Client	MERIT ENERGY COMPANY	API#	15-055-22496
Client Field Rep.	Rodney Gonzales	Well Classification	
Service Sup.	Edgar Rodriguez	County	Finney
District	Liberal, KS	State/Province	KS
Type of Job	Surface	Formation	ST LOUIS
Execution ID	EXC-10520-Q9D4K802	Rig	Duke #9
Project ID	PRJ1010302		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25	0.00	0.00	1,797.00	1,775.00	0.00		
Open Hole	12.25			1,275.00	1,275.00	130.00		
Casing	8.10	8.63	24.00	1,787.00	1,775.00		J-55	LTC

Shoe Length (ft): 42.12

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?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	BJ	Max Casing Pressure - Rated (psi)	2,000.00

Cementing Treatment



Top Plug Size	8.625	Max Casing Pressure - Operated (psi)	1,500.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	10.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	8RD
Landing Collar Depth (ft)	1,745	Top Connection Size	8.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)	40.00	10 min SGS	
Circulation Rate (bpm)	4.00	30 min SGS	
Circulation Volume (bbls)	200.00	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)	90.00	Slurry Cement Temperature (°F)	70.00
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Cementing Treatment



Mix Water Temperature (°F)

70.00

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	Multi Density Cement	12.1000	2.5793	14.53	0.00	1275	470	1,209.0000	215.3000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	1,275.00	500	175	222.0000	39.4000
Displacement Final	Displacement	8.3400			0.00			0.0000	111.0000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.0000	BWOB
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	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.0000	BWOB
Lead Slurry	Multi Density Cement	IntegraSeal CELLO	0.5000	LBS/SK
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Multi Density Cement	Cement Additive, Sodium Metasilicate A-2	2.0000	BWOB
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	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
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	BWOB

TREATMENT SUMMARY

Cementing Treatment



Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	0.00	215.30			
	Class A Cement	0.00	39.40			
	Displacement	0.00	111.00			
			Min		Max	Avg
	Pressure (psi)		0.00		0.00	0.00
	Rate (bpm)		2.50		5.00	5.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	90.00
Calculated Displacement Volume (bbls)	111.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	111.00	Amount of Spacer to Surface	0.00
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)	1,250.00	Total Volume Pumped (bbls)	377.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

CEMENT PLUG

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

Cementing Treatment



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 LOG ATTACHED

Job Summary

JOB LOG ATTACHED

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Plug & Abandon
Print Date September 05, 2018



Field Ticket # FT-10728-N6W8T30201-865137058

Field Ticket # FT-10728-N6W8T30201-865137058 **Credit Approval #**
Client MERIT ENERGY COMPANY **Purchase Approval #**
PO BOX 1293, LIBERAL, 67905-1293 **Invoice #**

Field Rep	Edgar Rodriguez	Well	Circle 28-2
Field Client Rep	Rodney Gonzales	Well API #	15-055-22496
District	Liberal, KS	County	Finney
Job Type	Plug & Abandon	State/Province	KS
Job Depth (ft)	1,830.00	Field	
Gas Used On Job	No	Lease	

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Plug & Abandon
Print Date September 05, 2018



Field Ticket # FT-10728-N6W8T30201-865137058

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100295	IntegraSeal CELLO	LB	84.0000	\$5.76	\$483.84	45.00	\$266.11
L488168	CEMENT, ASTM TYPE I	SK	102.0000	\$44.11	\$4,499.22	45.00	\$2,474.57
L100317	CEMENT, FLY ASH (POZZOLAN)	SK	68.0000	\$25.68	\$1,746.24	45.00	\$960.43
L100120	EXTENDER, BENTONITE	LB	585.0000	\$2.08	\$1,216.80	45.00	\$669.24
Product Material Subtotal:					\$7,946.10		\$4,370.36

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	90.00	53.600
S-100584	Additional Hours	EA	2	\$2720.00	\$5440.000	91.00	490.003
S-100004	Cement Crew Mobilization-Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.000	90.00	1,088.000
S-100050	Cement pump charge, 2,001-3,000 feet/ 601-900 m	4/HR	1.00	\$5,040.00	\$5,040.000	90.00	504.000
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	90.00	94.800
Service Subtotal:					\$18,844.00		\$2,230.40

FIELD TICKET

Client MERIT ENERGY COMPANY
Well Circle 28-2
Job Description Plug & Abandon
Print Date September 05, 2018



Field Ticket # FT-10728-N6W8T30201-865137058

FIELD ESTIMATES

TOTAL GROSS AMOUNT \$26,790.100
TOTAL % DISC 75.361%
TOTAL NET AMOUNT \$6,600.758

Arrive Location

Client Rep.

Well	Circle 28-2
AFE	61991
GL	8300 1075
Office	Garden City
Date	9-5-18

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

Edgar Rodriguez

CLIENT AUTHORIZED AGENT

Rodney Gonzales

EVENT LOG



Customer Name: MERIT ENERGY COMPANY

Well Name: Circle 28-2

Job Type: Plug & Abandon

Quote ID: QUO-18888-V3G3H6

Plan ID: ORD-10728-N6W8T3

Execution ID: EXC-10728-N6W8T302

District: Liberal, KS

BJ Supervisor: Edgar Rodriguez

Seq.	Start Dt./Time	Event	Equipment	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	09/04/2018 19:00	Arrive on Location						ARRIVE ON LOCATION / PULLING DP & COLLARS
2	09/04/2018 19:00	Safety Meeting						STEACS BRIEFING
3	09/04/2018 19:10	Spot Units						SPOT EQUIPMENT
4	09/04/2018 19:20	Safety Meeting						STEACS BRIEFING
5	09/04/2018 19:30	Rig Up						RIG UP GROUND
6	09/04/2018 20:00	Customer						RIG GOING BACK IN WITH DRILLPIPE TO SET PLUG
7	09/04/2018 20:00	Customer						DRILLPIPE AT DESIRED DEPTH
8	09/04/2018 21:45	Rig Up						RIG UP FLOOR
9	09/04/2018 21:55	Safety Meeting						STEACS BRIEFING
10	09/04/2018 22:05	Other (See comment)						1ST PLUG @1830'

EVENT LOG



11	09/04/2018 22:05	Pump Spacer		8.3000	2.50	3.00	100.00	PUMP SPACER
12	09/04/2018 22:07	Pumping Cement		13.8000	2.50	12.70	130.00	50 SKS 60/40 POZ CLASS A
13	09/04/2018 22:12	Pump Displacement		8.7000	3.00	22.00	100.00	MUD DISPLACEMENT
14	09/04/2018 22:18	Other (See comment)						PULL DRILL PIPE
15	09/04/2018 23:08	Other (See comment)						2ND PLUG @950'
16	09/04/2018 23:10	Pumping Cement		13.8000	3.00	12.70	80.00	50 SKS 60/40 POZ CLASS A
17	09/04/2018 23:15	Pump Displacement		8.3000	3.00	10.00	80.00	WATER DISPLACEMENT
18	09/04/2018 23:18	Other (See comment)						PULL DRILLPIPE / KELLY LINE / MOUSE & RAT HOLE READY
19	09/05/2018 00:20	Other (See comment)						3RD PLUG @60'
20	09/05/2018 00:21	Pumping Cement		13.8000	2.50	5.00	50.00	20 SKS 60/40 POZ CLASS A
21	09/05/2018 00:23	Other (See comment)						PULL LAST JOINTS OF DRILLPIPE
22	09/05/2018 00:35	Other (See comment)						RAT & MOUSE HOLES
23	09/05/2018 00:35	Pumping Cement		13.8000	3.00	12.70	50.00	50 SKS 60/40 POZ CLASS A
24	09/05/2018 00:40	Clean Pumps and Lines		8.3000				CLEAN LINES AND PUMPS
25	09/05/2018 01:00	End Pumping						END JOB
26	09/05/2018 01:00	Safety Meeting						STEACS BRIEFING
27	09/05/2018 01:05	Rig Down						RIG DOWN
28	09/05/2018 01:35	Leave Location						CREW LEAVE LOCATION

Cementing Treatment



Start Date	9/4/2018	Field Ticket#	
End Date	9/5/2018	Well	Circle 28-2
Client	MERIT ENERGY COMPANY	API#	15-055-22496
Client Field Rep.	Rodney Gonzales	Well Classification	
Service Sup.	Edgar Rodriguez	County	Finney
District	Liberal, KS	State/Province	KS
Type of Job	Plug & Abandon	Formation	
Execution ID	EXC-10728-N6W8T302	Rig	Duke #9
Project ID	PRJ1010472		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	7.88	0.00	0.00	1,830.00	3,000.00			
Drill Pipe	3.83	4.50	16.60	1,830.00	3,000.00			

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)	1,000.00
Top Plug Size		Max Casing Pressure - Operated (psi)	100.00

Cementing Treatment



Centralizers Used	No	Pipe Movement	None
Centralizers Quantity		Job Pumped Through	No Manifold
Centralizers Type		Top Connection Thread	8RD
Landing Collar Depth (ft)	0	Top Connection Size	4.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)	10.00	10 min SGS	
Circulation Rate (bpm)	3.00	30 min SGS	
Circulation Volume (bbls)	50.00	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)	75.00	Slurry Cement Temperature (°F)	70.00
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Cementing Treatment



Mix Water Temperature (°F)

70.00

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	Plug 1	13.8000	1.4277	6.88		0	50	72.0000	12.7000
Lead Slurry	Plug 2	13.8000	1.4277	6.88		0	50	72.0000	12.7000
Lead Slurry	Plug 3	13.8000	1.4272	6.89		0	20	29.0000	5.1000
Lead Slurry	Mouse/Rat Hole Plug	13.8000	1.4277	6.88		0	50	72.0000	12.7000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Plug 1	CEMENT, ASTM TYPE I	60.0000	PCT
Lead Slurry	Plug 1	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Lead Slurry	Plug 1	IntegraSeal CELLO	0.5000	LBS/SK
Lead Slurry	Plug 1	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Plug 2	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Lead Slurry	Plug 2	IntegraSeal CELLO	0.5000	LBS/SK
Lead Slurry	Plug 2	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Plug 2	CEMENT, ASTM TYPE I	60.0000	PCT
Lead Slurry	Plug 3	CEMENT, ASTM TYPE I	60.0000	PCT
Lead Slurry	Plug 3	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Plug 3	IntegraSeal CELLO	0.5000	BWOB
Lead Slurry	Plug 3	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT
Lead Slurry	Mouse/Rat Hole Plug	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Mouse/Rat Hole Plug	CEMENT, FLY ASH (POZZOLAN)	40.0000	PCT

Cementing Treatment



Lead Slurry	Mouse/Rat Hole Plug	IntegraSeal CELLO	0.5000 LBS/SK
Lead Slurry	Mouse/Rat Hole Plug	CEMENT, ASTM TYPE I	60.0000 PCT

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Plug 1	0.00	12.70			
	Plug 2	0.00	12.70			
	Plug 3	0.00	5.10			
	Mouse/Rat Hole Plug	0.00	12.70			
		Min		Max		Avg
Pressure (psi)		100.00		130.00		70.00
Rate (bpm)		2.50		3.00		2.50

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)		Method Used to Verify Returns	
Actual Displacement Volume (bbls)		Amount of Spacer to Surface	0.00
Did Float Hold?	No	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amount Bled Back After Job	0.00
Bump Plug Pressure (psi)	0.00	Total Volume Pumped (bbls)	80.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job	None	Lost Circulation During Cement Job	No

Cementing Treatment



CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs	3.00		

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 LOG ATTACHED

Job Summary

JOB LOG ATTACHED