

Merit Energy PPCU Revision 2 # 102W

County/State Haskell, Kansas
Legal Loc. 22-27S-34W
Liner:Pump 10bbl Water; 10 bbl Flow Seal 21; 10
bbl Water; Pump 100 sks Lead & 40 sks Tail down
4 1/2;Drop Plug; Displace; Hook up to annulas
Terms:

Prepared for Matt Stark

Phone Number: 972-628-1416 Fax Number: Email Address:

> Prepared by Max Ball Basic Energy Services Inc. 620-675-5025

Service Point: Liberal, Kansas Contact Person: Tyce Davis 620-388-3779

Cement Callsheet



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Company	Service										
	1	Merit Energy		Cont	act Pe		Davis			Ph#	620-388-3779
Well Type	DDC	Contractor	1 10	T		County		Iaskel		State	Kansas
Lease Directions:	T	CU Revision 2	Well # 10)2W	Sec	22	Twp	2	7S	Range	34W
	.										
Job Type		Liner				sing Size 4 1/2	The	ead 8 R	. 1	Weight	11.6
Equipiment		1 Pump Truck, 1 Bulk Truck				oing/Drill Pipe Size		cker		Weight Bridge Plug	4.7
AFE#:						g Container Yes		ueeze Mani		Field Bin	
Liner:		bl Water; 10 bbl Flo									
	1/2	;Drop Plug; Displac		p to			100sks	s lead	ı & 40	sks ta	II
LEAD 1	Weight PPG	Туре		· LIVIE!		ditives					
BC119	12.3	A Serv	Lite		0.	0.2% C-37, 0.2% C17					
acks	Excess	Yield Ft³/sk	Water Gal/sk		-						
400 TAIL 1	100% Weight PPG	2.03	11.3	34		ditives					
BC133	13.80	Class C	T		- 1	2% C-37, 0.2%	6 C17				
acks 80	100%	Yield Ft ⁰ /sk 1.35	Water Gal'sk 6.3	8							
LEAD 2	Weight PPG	Туре			Ad	fitives					
acks	Excess	Yield Ft ⁰ /sk	Water Gal/sk								
TAIL 2	Weight PPG	•			Ad	ditives					
acks	Excess	Yield Ft ⁰ /sk	Water Gal/sk								
Mouse/Rat	Weight PPG	Туре	1		Ad	litives					
acks	Excess	Yield Ft ¹ /sk	Water Gal/sk								
Plugs	Weight PPG	Туре			Ad	ditives					
acks	Excess	Yield Ft/sk	Water Gal/sk	***************************************							
				oat E	quipr	nent					
Part# CF102	Quanity 1	Top Rubber Cement P							# Us	ed	# Returned
			M	isc. C	hem	icals					
CC158	420	ow-Seal 21 (Sodium S	ilicate), 509	% Sol	utic						
ordered By	1	<u> </u>	0.000	11.	L			Date of Jo	b I		
	Matt Stark		972-628-1		Fax			Time Read			
Operator or D	Max Ball	Phone	620-675-	-3023	Ema	11			ıt Time		

Merit Energy

PPCU Revision 2 # 102W County/State Haskell, Kansas



Liner:Pump 10bbl Water; 10 bbl Flow Seal 21; 10 bbl Water; Pump 100 sks Lead & 40 sks Tail down 4 1/2;Drop Plug; Displace; Hook up to annulas pump 100

Well Data and Calculations

	Lead 1 Cement	Tail 1 Cement	Lead 2 Cement	Tail 2 Cement	Top Out Cement	Plug Cement
Well Type:						
Job Type:	Liner	Liner	Liner	Liner	Liner	
Cement Weight PPG:	12.30	13.80				
Hole Size:	4.950	4.950	4.950	4.950		
Casing Size:	4.500	4.500	4.500	4.500		
Bottom of Cement:	4000	5100				
Top of Cement:		4000				
Percent Excess:	100%	100%				
Annulus Cal: (bbl/ft)	0.0041	0.0041	0.0041	0.0041		
Annulus Cal: (cft/ft)	0.0232	0.0232	0.0232	0.0232		
Annulus Vol: (ft/cft)	43.1158	43.1158	43.1158	43.1158		
Annulus Vol: cft	185.53	51.02				
Annulus Vol: ft	7999.43	2199.84				
Fluid Yield: cft/sk	2.03	1.35		1.37		1.55
Annular Vol.bbls	16.52	21.07				
Slurry Volume: bbls	33.04	9.09				
Fluid Water Ratio: gal/sk	11.34	6.38		5.53		7.80
Shoe Length: Ft.						
Shoe Calculation: bbl/ft		0.0155				
Pipe ID:Inches		4.0000				
Shoe Volume: bbls						
Shoe Volume: cft						
Cement Plus shoe: cft	185.53	51.02				
Cement Plus shoe: bbls	33.04	9.09				
Total mixing Water: bbls	24.68	5.74	#DIV/0!			
Displacement: bbls		79.27				
Calculated cement: Sks	91.40	37.79	#DIV/0!			
Total water required: bbls	24.68	85.01	#DIV/0!			

		<u>Cement Recommendations</u>		
Lead 1 Cement	400	A Serv Lite		400 sks
Tail 1 Cement	80	Class C 50/50		80 sks
Lead 2 Cement				
Tail 2 Cement				
Top Out Cement				
Plug Cement				
			Total:	480
		Float Equipment		

Float Equipment
Top Rubber Cement Plug, 4 1/2" 1 ea

Misc. Chemicals

Flow-Seal 21 (Sodium Silicate), 50% Solution



1700 S. Country Estates Raod

(B)	BAS	تااد	Liberal, KS 67901	SERVICE ORDER -	0
	ENERGY SE	RVICES	PH (620)-624-2277FAX (620) 624-2280	Date:	1/0/1900
Well Name: PPCU # 102	W		,	Location: 22-27S-34W	
County - State				RRC #:	
Haskell, Kan					
Type Of Service		eeze Casir	ng Leak	Customer's Order #:	
		Merit Ener		0	
	o dotoor.		9)		
	Address:	sublette.in	voices@meritenergy.com		
			Sublette Ks. 67877 ay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable	NET 20 (OFF 40 2) -ft d-t- eficusio	- Haar Guatamar's
default in payment of	of Customers account b	by such date, Cust	ay basic energy services in accord with the rates and terms stated in basic energy services current price lists. Invoices are payable former agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enfo ditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.	orce collection of said account, Custom	er agrees to pay all
Basic Energy Service	ces warrants only title	to the products, s	supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMF	LIED, MERCHANTABILITY, FITNESS	FOR A
contract, tort, produ	ct liability, breach of wa	arranty or otherwis	ND EYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, Ibality and Customer's eisel arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services. Is expressly limiter customer of credit for the cost of such Items. In no event shall Basic Energy Services be liable for special, indirect, punitive or continued.	I to the replacement of such products,	supplies or materials
or , at basic Energy	Services, option, to the	e allowance to the	Customic of Great for the Cost of Such Reins. In no event shall basic Energy Services we have for special, indirect, pullbare of Consc	quental damages.	
CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
BC119	400	SK	A-Serv Lite	26.00	10400.00
BC133	80	SK LB	Class C 50/50 Poz	23.50 24.00	1880.00 2016.00
CC187 CC126	84 84	LB	C-17 C-37	8.00	672.00
ME102	180	MI	Heavy Equipment Mileage	8.00	1440.00
CE240	480	SK	Blending & Mixing Service Charge	1.40	672.00
TM	1248	MI	Ton Mileage	3.00	3744.00
CC6	1	HR	Depth Charge, 5001-6000'	2900.00	2900.00
CE504	1	EA	Plug Container Utilization Charge	250.00	250.00
ME101	60	MI EA	Light Vehicle Mileage	5.00 350.00	300.00 350.00
CE505 CC158	420	GAL	Cement Densiometer, with chart recorder Flow-Seal 21 (Sodium Silicate), 50% Solution	8.00	3360.00
BE143	1	Ea	Supervisor	75.00	75.00
BE144	4	Ea	Driver	35.00	140.00
CF102	1	Ea	Top Rubber Cement Plug, 4 1/2"	80.00	80.00
				-	
				Book Total:	\$28,279.00
				Taxes:	\$20,279.00
				Disc. Price:	\$20,444.44
			Additional 10% Discount as per Agreement on Cement Services	10% Disc	\$2,044.44
				Adjusted Price	\$18,400.00
				YES	МО
PUMP TRUCK	NUMBER:		THIS JOB WAS SATISFACTORILY COMPLETED		
			OPERATION OF EQUIPMENT WAS SATISFACTORY		H
DRIVER:			PERFORMANCE OF PERSONEL WAS SATISFACTORY		
	BASIC ENERGY	SERVICES	CUSTOMER OR F	IIS AGENT	
Custo	mer Comments	or Concerns	St		