

# **INVOICE**

INVOICE NUMBER: 13288

Mud Master Drilling Fluid Services Ltd.

1000, 639 - 5th Ave. SW

Calgary, AB T2P 0M9

Phone: 403.237.8900

Fax:

403.265.6199

www.mudmaster.ca

info@mudmaster.ca GST# 103797080

SOLD TO:
Surge Energy Inc.
2100, 635 - 8th Ave SW
Calgary, AB
T2P 3M3

VIA: Open Invoice

INVOICE DATE:	August 27, 2021
PAYMENT TERMS:	Net 30
WELL NAME:	Surge Macklin
AFE:	21DR0826
COST CODE:	9310.326
SURFACE:	05-12-039-02 W4M
UWI:	103/05-11-039-02 W4M
RIG:	Star Valley #102

FIELD SUPERVISOR:

Shawn Schuster/Wade Zakaluzny

FLUID SUPERVISOR:

Brian Mielke

SALESPERSON:

Rob Nieuwesteeg

DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
Barite	40 kg	18	\$22.00	\$396.00
Bleach	20 L	6	\$65.00	\$390.00
Calcium Nitrate/Envirofloc	36.28 kg	10	\$44.00	\$440.00
Caustic Potash	25 kg	16	\$110.00	\$1,760.00
Desco II CF	11.34 kg	9	\$100.00	\$900.00
Drispac Super Lo	22.68 kg	11	\$210.00	\$2,310.00
Gypsum	25 kg	24	\$11.00	\$264.00
Hyperdrill AF204RD	25 kg	2	\$195.00	\$390.00
Lignite/Humalite	22.68 kg	8	\$12.00	\$96.00
M & D Lube	205 I	1	\$1,400.00	\$1,400.00
Op-T-Con CS 3001	20 L	21	\$135.00	\$2,835.00
Polyxan	25 kg	12	\$250.00	\$3,000.00
Sawdust	6.8 kg	100	\$4.75	\$475.00
Sun Burst Beads	22.7 kg	10	\$107.00	\$1,070.00
Ultra Pac LV	22.68 kg	53	\$167.00	\$8,851.00
Ultra Pac R	22.68 kg	9	\$189.00	\$1,701.00
Walnut Med	22.68 kg	15	\$22.00	\$330.00
Mud Check	each	4	\$500.00	\$2,000.00
Travel Charge	km	260	\$1.00	\$260.00

SUBTOTAL:

\$28,868.00

5% GST:

\$1,443.40

Thank you for your business.

**INVOICE TOTAL:** 

\$30,311.40

If you have any questions regarding this invoice please call 403.237.8900 or email accounting@mudmaster.ca





Surge Energy Inc.

Delivery Ticket Summary AFE: 21DR0826

9310-326 05-12-039-02 W4M 103/05-11-039-02 W4M

Star Valley 102 August 15, 2021 August 19, 2021 AFE: CC: Surface: UWI: Rig: Spud Date:

> 1000, 639 - 5th Ave SW, Calgary, AB, T2P 0M9 Mud Master Drilling Fluid Services Ltd. Phone: 403,237,8900 Fax: 403,265,6199

Invoice:

Mud Master Summary of Transfer, Delivery and Credit Tickets

Product
Consumption per
Tickets

Transfer Ticket
TT-210819-BJM
Out
-42
-8
-120
-10

Total Product Received

Transfer Ticket TT-210818-BIM-BIKD-002111

TT-210813-BJM

Barite Bleach Calclum Nitrate / Envirofloc

	正	Field Summary	>	Consumption	Difference a	Difference and Comments
				Difference MM	Difference for MM	
	Fletd Summary FT- 20210819-BJM	Product Pricing per Field Summary	Total per Field Summary	Ticketing vs Field Summary	Ticketing vs Field Summary	Comments
	18	\$22.00	\$396.00	0	\$0.00	
	9	\$65.00	\$390,00	0	\$0.00	
	10	\$44.00	\$440.00	0	\$0.00	
	16	\$110.00	\$1,760.00	0	\$0.00	
	6	\$100.00	\$900,00	0	\$0.00	
	11	\$210.00	\$2,310.00	0	\$0.00	
	24	\$11.00	\$264.00	0	\$0.00	
	2	\$195.00	\$390,00	0	\$0.00	
	0	\$204,00	\$0.00	0	\$0.00	
	8	\$12.00	\$96,00	0	\$0.00	,
	т	\$1,400.00	\$1,400.00	0	\$0.00	••
	21	\$135.00	\$2,835.00	0	\$0.00	
	12	\$250.00	\$3,000.00	0	\$0.00	
	100	\$4.75	\$475.00	0	\$0.00	
	10	\$107.00	\$1,070.00	0	\$0.00	
	53	\$167.00	\$8,851.00	0	\$0.00	
	6	\$189,00	\$1,701.00	0	\$0.00	
	15	\$22.00	\$330.00	0	\$0.00	
	260	\$1.00	\$260.00	0	\$0.00	
1			\$26,868.00		\$0.00	
	4	\$500.00	\$2,000.00		\$0.00	
- 1			\$2.000.00		\$0.00	
1						
- 1			\$28,868.00		\$0.00	

\$12.00 \$65.00 \$110.00 \$110.00 \$110.00 \$120.00

Gypsum Hyperdrill AF204RD Hyperfloc CP 911 Lignite / Humalite M&D Lube Op-T-Con CS-3001

Drispac Super Lo Caustic Potash Desco II CF

\$500,00

196686 220003083 8179

internal Reference BC
Internal Reference BC
Internal Reference SDP
Internal Reference M&D
Grand Total

Ultra Pac R Wainut Med Mud Man Travel Charge/km

Polyxan Sawdust Sun Burst Beads

Ultra Pac LV

Mud Check (<4 hours)

FIELD TICKET
TICKET #:

FT-20210819 BJM



1000, 639 - 5th Ave. SW, Calgary, Alberta, T2P 0M9 Telephone (24hour): (403) 237-8900 Fax: (403) 255-8199

21DR0826	AFE / PO NUMBER:
August 19, 2021	DATE ISSUED:
Blackfalds, Ab	WAREHOUSE:
FORMULA POWELL	TRUCKER:
(403) 885-5151	PHONE:

WELL NAME:	Surge 103 Hz Provost
LSD:	5-11-39-2w4m
U.W.L:	103
OPERATOR / INVOICE TO:	Surge Energy Inc
RIG NUMBER:	Star Valley Drig #102

Desco	Product	Unit Size	Unit Price	Total Received	Total Credited	Total Units Used	Total U (Weigl Volum	πt/	End of Well Balance		Price of Received Product		Price of Credited Product	Price of Used Product		Price of Remaining Product
Balle											Sub-Total	-	Sub-Total	Sub-Total	T	Sub-Total
Coldent Notice					42.0	18,0	720,0	kg	ŧ	5	1,320.00	\$	924.00		S	
Calcium Minterio			\$ 65,00	14.0	8,0	6.0	120.0	L	1	5	910,00	S	520.00	\$ 390.00	S	
Causic Periods   25 bg   \$10,000   \$20,000   \$100,000   \$1,750,000	Calcium Nitrate	36.29 kg	\$ 44.00	130.0	120.0	10.0	362.9	ko	1	S						
Cannets Code   22,98 kg   8 4600	Caustic Potash	25 kg	\$ 110.00	26.0	10.0	16.0	400.6									
Deco      1134   9	Caustic Soda	22,68 kg	\$ 46.00			1										***************************************
Symptom   25 kg   8   11.00   40.0   40.0   41.0   50.0   58.5   6   5   58.00   5   5   58.00   5   5	Desco II			42.0	33.0	90	102 1									
Number   Clushe   63-65 kg   518-00   40.0   61.0   60.0   53.0   10.0   10.0   50.0   10.0	Gypsum		\$ 11.00	36.0												
Prignate   12   12   13   13   13   13   13   13																
MAD Labe    205   L   91,400.00									<del></del>							
Not Shelf M	M&D Lube															
OpeRCom   20   S   335,00   14.0   53.0   21.0   20.0   1	Nut Shell M								ł							
Poly Nam																
Savidar   7.3 kg   5.475   9.00.0   20.0   100.0   730.0   kg   5.425.00   5   5.570.0   5   5   5.570.0   5   5.570.0   5   5.570.0   5   5.570.0   5   5										Luce.						
Surborn Beade   22.7 kg   5 107.00   74.0   64.0   10.0   277   6g   5   7 19100   5   6,066.00   5   1,070.00   5									ļ							
Ditra Pack to									ļ							
Ultis Pace Regg																
Drippes Super LO		∠o Kg							L	Lower						
		25 kg			95.0				<u> </u>	h						
						11.0	249,5									
		25 kg			10,0		1 TH SHARE AND ADDRESS OF	kg	L	5	2,040,00	s	2,040.00	S -	5	-
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Product Total:	\$ 26,868.00
Trucking and Product Handling Total:	\$ -
Engineering / Supervision Total:	5 7000 EV.
Combined Drilling Fluids Total:	\$78868.00
	168868000
ISSUED BY:	
Brian Mielke	
34_	
RECEIVED IN GOOD GROER BY.	
Shawn Schuster / Wade	Zakaluzny

STAMP/COMMENTS:

SURGE ENERGY 103 HZ Provost 5-11-39-2W4 Surface 5-12-39-2W4 (545.5m N, 289.0m E) UIW 103/05-11-039-02W4/0 License #0500539 AFE 21DR0826

Star Valley 102
Billing.oilfield.clean@gmail.com
Ren: Shawn Schuster 306,830,590

Rep: Shawn Schuster 306-830-5903
Rep Wade Zakaluzny 403-928-4882
CODE 9310-326 / DRILLING MUD & CHEMICALS



#### TRANSFER TICKET

210813 TT-

BJM - (N

106

1000, 639 - 5th Ave. SW Calgary, Alberta T2P 0M9

Date Shipped:

Origin:

Location: U.W.I.

Issued by:

Operator: Rig Number:

Well Name:

8-21-39-2w4m

103

Surge Energy Inc Star Valley Drlg #102

Surge 103 Hz Provost

Destination:

Well Name:

Location:

U.W.I.

Operator: Rig Number: Surge 108 Hz Provost

5-11-39-2w4m

Surge Energy Inc Star Valley Drlg #102

PRODUCT	QUANTITY	UNIT WEIGHT	TOTAL WEIGHT
Barite	18	40.0 kg	720 kg
Bleach	7	20.0 kg	140 kg
Calcium Nitrate	10	36.4 kg	363.6 kg
Caustic Potash	26	25.0 kg	650 kg
Caustic Soda		22.7 kg	kg
Desco II	42	11.3 kg	476.28 kg
Gypsum	36	25.0 kg	900 kg
Humalite / Lignite	7	45.5 kg	318.15 kg
Hyperdrill AF 204RD	9	25.0 kg	225 kg
M&D Lube	2	175.0 kg	350 kg
Nut Shell M	92	22.7 kg	2086.56 kg
OptiCon	50	20.0 kg	1000 kg
Poly Xan	8	25.0 kg	200 kg
Sawdust	150	7.3 kg	1095 kg
Sunburst Beads	32	22.7 kg	726.4 kg
Ultra Pac Lo	5	25.0 kg	125 kg
Ultra Pac Reg	24	25.0 kg	600 kg
Drispac Super Lo	11	22.7 kg	249.48 kg

TOTAL WEIGHT: 10225.47 kg

Received / Released by:

Brian Mielke Shawn Schuster / Wade Zakaluzny



Mud Master Drilling Fluid Services #1000, 639 - 5 Avenue S.W.

Calgary, AB T2P0M9 Phone: (403) 237-8900 Fax: (403) 265-6199

24 Hr Emergency Phone: (403) 237-8900

## **DELIVERY TICKET**

BLKD-002411

Posted: 16-Aug-21

SOLD TO Surge Energy Inc. #2100, 635 - 8 Avenue S.W. Calgary, AB T2P 3M3 SHIP TO Surge Energy Inc. Star Valley #102 4-11-39-2W4

**Surge 106 Hz Provost** 

DATE SHIPPE	D I	REFERENCE TICKET	PO / AFE	ORDERED BY	WAREHOUSE		
15-Aug-21				Brian M	Blackfalds - Fo	ormula Pov	vell
CODE	QUANTITY	DESCRIPTION				UNIT WEIGHT	TOTAL WEIGHT
	42	BARITE 41 (40kg) 42/PA	LLET			40.00	1,680.00
	10	ENVIROBAG (FP)				0.00	0.00
	120	ENVIROFLOC (36.28KG	)			36.28	4,353.60
	42	HUMALITE (LIGNITE) (2	2.68kg)			22.68	952.56
	10	HYPERFLOC CP 911 (25	5kg)			25.00	250.00
	4	M&D LUBE (208L) DRU	<b>v</b> ing 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		en agregoria e la companya de la co Na	208.00	832.00
	64	OP-T-CON CS-3001 (20L	<b>-)</b>			22.68	1,451.52
	22	PALLETS (22.7kg)				22.70	499.40
	2	PLANKS				0.00	0.00
	40	POLYXAN (25kg)			egi <sup>n</sup> in the second se	25.00	1,000.00
	150	SAWDUST (7.3KG)				7.30	1,095.00
	14	SHRINKWRAPS (FP)			en e	0.00	0.00
	42	SUN BURST DP (22.68 P	(G)			22.68	952.56
	240	ULTRA PAC LV (22.68kg	3)			22.68	5,443.20
	80	ULTRA PAC R (22.68kg)				22.68	1,814.40
	40	WALNUT MEDIUM (22.6	8kg)			22.68	907.20
	1						
						i	

CARRIER
Formula Powell (BF)
PO Box 568
4300 South Street
Blackfalds, AB T0M 0J0

PLACARDS REQUIRED TRAINING CERTIFICATE TOTAL WEIGHT (kg)

CLASS: None 21,231.44

DRIVER Ewan Burnett Enterp SHIPPER RECEIVER

#### **SPECIAL INSTRUCTIONS:**

RENTAL SWAP, also ADD Garbage Bin to LOAD

Van/Hiboy #: C0145

Reprinted: 16-Aug-2021 8:01:20 am

Written By: Sean Zloty



#### **DELIVERY TICKET**

Mud Master Drilling Fluids

DT-210818 BJM - 1N.

1000, 639 - 5th Ave. SW Calgary, Alberta T2P 0M9

Date Shipped:

Origin:

Well Name:

Location:

U.W.I.

Operator: Rig Number:

Surge 103 Hz Provost

5-11-39-2w4m

103

Star Valley Drlg #102

Surge Energy Inc

Destination:

Well Name:

Location:

Calgary AB

U.W.I.

Operator: Rig Number:

PRODUCT	QUANTITY	UNIT WEIGHT	TOTAL WEIGHT
Barite		40.0 kg	kg
Bleach	7	20.0 kg	140 kg
Calcium Nitrate		36.4 kg	kg
Caustic Potash		25.0 kg	kg
Caustic Soda		22.7 kg	kg
Desco II		11.3 kg	kg
Gypsum		25.0 kg	kg
Humalite / Lignite		45.5 kg	kg
Hyperdrill AF 204RD		25.0 kg	kg
M&D Lube		175.0 kg	kg
Nut Shell M		22.7 kg	kg
OptiCon		20.0 kg	kg
Poly Xan		25.0 kg	kg
Sawdust		7.3 kg	kg
Sunburst Beads		22.7 kg	kg
Ultra Pac Lo		25.0 kg	kg
Ultra Pac Reg		25.0 kg	kg



TOTAL WEIGHT: 140 kg Issued by: Received / Released by: Brian Mielke Shawn Schuster / Wade Zakaluzny



### TRANSFER TICKET

BJM - OUT 210819

102

1000, 639 - 5th Ave. SW Calgary, Alberta T2P 0M9

Date Shipped:

Origin:

Well Name:

Location:

U.W.I.

Operator: Rig Number: Surge 103 Hz Provost 5-11-39-2w4m

103

Surge Energy Inc Star Valley Drlg #102 Destination:

Well Name:

Location:

Surge 102 Hz Provost

5-11-39-2w4m

U.W.I.

Operator: Rig Number: Surge Energy Inc

Star Valley Drlg #102

PRODUCT	QUANTITY	UNIT WEIGHT	TOTAL WEIGHT
Barite	42	40.0 kg	1680 kg
Bleach	8	20.0 kg	160 kg
Calcium Nitrate	120	36.4 kg	4363.2 kg
Caustic Potash	10	25.0 kg	250 kg
Caustic Soda		22.7 kg	kg
Desco II	33	11.3 kg	374.22 kg
Gypsum	12	25.0 kg	300 kg
Humalite / Lignite	41	45.5 kg	1863.45 kg
Hyperdrill AF 204RD	17Typo-	S/B 7 25.0 kg	425 kg
M&D Lube	5	175.0 kg	875 kg
Nut Shell M	117	22.7 kg	2653.56 kg
OptiCon	93	20.0 kg	1860 kg
Poly Xan	36	25.0 kg	900 kg
Sawdust	200	7.3 kg	1460 kg
Sunburst Beads	64	22.7 kg	1452.8 kg
Ultra Pac Lo	192	25.0 kg	4800 kg
Ultra Pac Reg	95	25.0 kg	2375 kg
Drispac Super Lo		22.7 kg	kg
Hyperdrill CP 911	10	25.0 kg	250 kg

26042.23 kg

Issued by: Received / Released by:

Brian Mielke

Shawn Schuster / Wade Zakaluzny

TOTAL WEIGHT:

#### **DRILLING FLUIDS REPORT (WBM)** REPORT NUMBER:

WELL NAME: U.W.L: OPERATOR: OPERATOR REP: PHONE NUMBER: RIG NUMBER: RIG MANAGER: PHONE NUMBER:

Surge 103 Hz Provost 103

Surge Energy Inc Shawn Schuster / Wade Zakaluzny (306) 830-5903 Star Valley Drlg #102 Daryl Johnson

B.H.L: 5LSD: 5DATE: AL
SPUD DATE: AL
DAYS FROM SPUD:
WAREHOUSE: BL
TRUCKER: FO
PHONE: (40 5-11-39-2w4m 5-12-39-2w4m August 16, 2021 August 15, 2021

D: 1 BLACKFALDS, AB Formula Powell (403) 885-5151



1000, 639 - 5th Ave. SW, Calgary, Alberta, T2P 0M9 Telephone (24hour): (403) 237-8900 Fax: (403) 265-6199

PHONE NUN	NDLK.				PHO	NE:	(403) 885-5	101									
					ULICS ANALY						RESSURE			PUMP DATA			#2
Interval H HWDP	fole (mm) 205	Wash (vol %)	Hole (Adjuster 205.00	0D (mm	ID (mm) 63	Length (m) 116	A.Vel.(m/min	) C. Vel (m/min) 76	Flow Pro		n,kPa	Pipe,kPa	Make			kmax En	msco
HWDP	200	10.00%	209.76	102	63	460	66	75	TRANS		26	896 3553		Model Liner (mm)			1000 39.7
DP	200	10.00%	209.76	102	83	380	66	75	TRANS	S :	76	872	Stroke	(mm)			254
BHA	200	10.00%	209.76	156	83	40	112	102	TURB		41	92		t (L/stk)			1.67
				1		1	<del> </del>	t	<del> </del>		-		SPM	t (m³/min)		1.737	72
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				}			0.00011		L					loss @ bit	kPa		201
FLUID MAN	NAGEMEN	IT AND VOLU	ME SUMM,	ARY (VOLUI	(ES IN m³)	Туре	OD(mm)	DESIGN ID(mm)	Set @ (m)		TION SUF y (deg)	RVEY 83	ECD @	2) TD e to Bit	kg/m³ (min		2.3
ACTIVE SYS	STEM			T		Surf	219	206	116	Azimuth	(deg.)	273.0	Botton		(min)		2.3 14.8
Tank Volume:	36.0					Inter				Depth (r	nTVD):	728,00	Flowlin	ne to Suction			20.7
Hole Volume: Annular Volume:	34.2			1		Inter Inter	-			Depth (	mMD):	996.00	Circula	ation time	(mîn)	3	37.8
Pipe Capacity:	4.1					nitei	1	į.	1	Number:	1	Hour		FORMATION 10		Nozzles	
Total Active:	65.7					Liner top				Make:	Ultern			165		11.1 11.1	11.1
FLUID ADDI Previous Additio	TIONS	FLUID LO		1		Liner				Type:	U5139			2-9	11.1 11.1		
Daily Additions:	HIS.	Previous Loss Daily Hole Los		<del> </del>		O.H.	200	1	880	Size(mm): Depth In:	200 116		l. m/s; (mm²)	42.66 678.60			
Total Additions:	$\neg$	Daily Surf. Lo			****		RESSURE		1 000	Debui iii.		ATERIAL		070,00	-l		
		Daily Total Lo					S (kPa)		PRODUCT			ZE JUNIT	PRICE	USAGE	BALANCE	SUB-TO	TAL
		Accum, Int. Lo	SSes:	MENT DES	CDIDTION	6	849 Lune	GYPSUM N	TRATE		36.3 kg			10	40		
Shaker#1	Derrick			230		230 2	230	HYPERDRIL	L AF 204RD		25 kg		_	24	12 7		
Shaker#2	Derricl			230	230 2	230 2	230	OPTICON			20 L	,		3	47		-
Shaker#3		SCRE						SAWDUST	1005		7.3 kg	3		75	75		
Shaker # 4 Centrifuge #1		SCRE Precision		(kg/m²)	1060 UF	(kg/m <sup>2</sup> ) 1	740	TRAVEL CH	MKGE					65			
Centrifuge #2		Precision		(kg/m²)			740	1				_			_	-	
			OF	(kg/m²)	UF	(kg/m³)		ļ <u> </u>									
		/A/C	OF LL DESIGN	(kg/m³)		(kg/m²) CONTAL		1					7				
	CUI	RRENT WELL				JILD						-			<del>                                     </del>	<del> </del>	
		CURRENT FO	ORMATION	:	SPAR	KY (SS)											
			T ACTIVITY		ILLING AHEAI	O - BUILD SE	CTION										
	ACIT	/E SYSTEM F		TIES CHEC		OLYMER   #2	#3				-	+			-	-	
PRESENT D	EPTH	FLUI	S I NOFER	mT\	D 729	1 #2	, #3 	1			<del> </del>	-			<del>                                     </del>		
				mN	D 996	ļ	ļ					$\perp$					
TIME SAMPL SAMPLE PO					15:00 SHAKER	-		<del> </del>							<u> </u>		
FLOWLINE T		TURE		deg		1					I   D4	I AILY PRO	DUCTO	OST	\$	10	920.25
FUNNEL VIS	COSITY			s	L 44		1				E	NGINEER	ING COS		\$		500.00
FLUID DENS		-		kg/r							PF	REVIOUS	COST		\$		-
PRESSURE:	GKADIEN			kPa	m 10.50		<del> </del>	ļ		DAII V ACT				T TO DATE	\$ ENTS	2,4	420.25
RHEOMETE	R READIN	GS		600 rp		1											
				300 rp 200 rp	m 26				Move, rig u at 2215 hrs		set. Spuc	a time 1	400 hr:	s. Nipple u	p, pick up t	oots. Drill	- 1
FV @ S6 d PV & S	leg.C leg.C DSS E THICKN TORT DS TY SOLIDS TY	5 5 5 6	2)		a) 1.5 b) 2.5 c) 4 b) 2.5 c) 4 c) 6.0 c) 6.21 c) 6.21 c) 6.24 c) 7 d) 7 d			IFVISC of circ thru  Maintait  We will  Maintait  higher o  **** Fo over 60  Tourly, a  Density Run wat  *** Note	n Visc at 40 limbs from chem bbl a of fluid loss a use the Dris on pH at 10.0 on your paper revery 100 minutes.  dd 1 pail of low as possier as require; Please registre time in s	drilling sha as required at 5.0 - 6.0 spac by itse 0 - 10.5 with ers which a 0 m of new f Bleach evi tible w/ Cer red to main cord all mu	les to 45 cc with I cc with I clf until it in Caustic re consis hole dril enly ove atrifuges tain volu d used f	Drispac : t is gone c Potash stantly 1  lled, add r 1 circ. s ran at a ume. Ad for cuttil	Super L t, then 1 sxs o L.0 low I 1 pail I time d watengs clean	o, 2 sxs or switch bacover 1 circ er than mile of OptiCo.	ver 1 circ as k to UltraP as required ine. n. Trickle in screens on s haker.	required. ac LV.  I. We need at suction	l pH
Make Up Wa Make Up Wa PHPA Excess Amine Excess	ter Ca++ s s s ND TEAR			11 WIR	3	ENT	RIGTIM	20 DIREC 21 SAFE 22 MIX L	K / FISHING CTIONAL WOR TY MEETING		****	28 29 30					
2 DRILL AC 3 REAMNG 4 CORING		CIDO															
3 REAMNG 4 CORING 5 CONDITIO		CIRC		14 NIP	LE UP B.O.P.						_						
3 REAMING 4 CORING 5 CONDITIO 6 TRIPS 7 RIG SERV	ON MUD &	CIRC		14 NIP 15 TES 16 DRI	PLE UP B.O.P. T B.O.P. LSTEM TEST			24 CIRC 25 MISC	GAS/WELL F					HOURS			
3 REAMNG 4 CORING 5 CONDITIO 6 TRIPS 7 RIG SERV 8 REPAIR R	ON MUD &			14 NIP 15 TES 16 DRI 17 PLU	PLE UP B.O.P. T B.O.P. LISTEM TEST G BACK			24 CIRC 25 MISC 26 Other					Cumula	ative Drilling	Hours;		
3 REAMNG 4 CORING 5 CONDITIO 6 TRIPS 7 RIG SERV 8 REPAIR F 9 CUT OFF	ON MUD & VICE RIG DRILLING			14 NIPI 15 TES 16 DRI 17 PLU 18 SQL	PLE UP B.O.P. T B.O.P. LSTEM TEST	т		24 CIRC 25 MISC	GAS/WELL F	FLOW			Cumula Total N	ative Drilling I.P.T.	Hours:		

The information contained in this report represents our best judgment based on industry experience, it is solely intended to aid our customer without risk of liability for any loss which may result from its use, in addition, nothing contained herein shall be construed as a recommendation to use any product with existing patents covering any material or its applications.

#### **DRILLING FLUIDS REPORT (WBM)** REPORT NUMBER: 5

WELL NAME: U.W.L: OPERATOR: OPERATOR REP: PHONE NUMBER: RIG NUMBER: RIG MANAGER: PHONE NUMBER:

Surge 103 Hz Provost 103

103 Surge Energy Inc Shawn Schuster / Wade Zakaluzny (306) 830-5903 Star Valley Drig #102 Daryl Johnson

B.H.L.: 5-11-39-2w4m
LSD: 5-12-39-2w4m
DATE: August 19, 2021
DAYS FROM SPUD: 4
WARCHOUSE: BLACKFALDS, AI
TRUCKER: Formula Powell
PHONE: (403) 885-5151

D: 4
BLACKFALDS, AB
Formula Powell
(403) 885-5151



1000, 639 - 5th Ave. SW, Calgary, Alberta, T2P 0M9 Telephone (24hour): (403) 237-8900 Fax: (403) 265-6199

March	PHONE NUM	NOCK:				PHO		(403) 885-51	101									
Property   15	Interval H	lole (mm)	Wash (unl ac)	Hole (Adings - 4				A Val /m/mi-	IC Val (!-	N Flour D-				N-1:	PUMP DATA			
Mode   1985   1986   1987	HWDP	205		205.00	102	63									4			
Dec.   195   50.005   56.75   195				209.76	102	63	460		105	LAMI	1	104	875	Liner (	(mm)	13	9.7	139,7
150   100																		
Full MacAGEMENT May Volume to buy   Full MacAGEMENT MAY Volume t															וג (נושטג)	14	.01	
## COMMON PROPERTY AND VOLUME SIMMONY OPCULUTES IN 1971   TOTAL STREET   TOTAL ST														Outpu			0.99	
Fig.					+	+	1			+						PQ-	1	600
Third	EL DID MAN	MACEMEN	T AND VOLU	ME CHIMMIT	ADV A/OLUM	EC IN -3	<u> </u>	CASING	DESIGN		DEVIA	TION S	URVEY				-	
Page			1 MIND VOLU	ME SOMME	ART (VOLUM	E2 IN m }					Surve	y (deg)	90	Surfac	ce to Bit		Ť	
March   Marc					-			219	206	116								
More	Hole Volume:	64.9																
Test Annual   Company				-			Inter			1		,y:						
File   County   File   County   Count				$-\!\!\!\!-$	+		15								18			
Process   Proc			FLUID LO	SSES	+			-								11.9 11.9	11.9	11.9 11.9
Tries And Article   Color   Section   Color   Processor   Color	Previous Addition		Previous Loss	ses:											29.68			
Subject   Control   Cont										2281	Depth In:							
Decam Pt   Losse	TOTAL AUGUSTIS.				+				-	PRODUCT						DALANCE	6110	TOTAL
Shaper #   Desire   Society   23   20   220			Accum. Int. Lo	osses;								1 0,14,1	5122   5111	11402	JOHOL	DALFOL	000	-IOIAL
Share   2   Dentity   Scrietary   230	01-1																	
Section   Sect									ļ			₩						
State # 4	Shaker#3	_0,,,,,,	SCRE	ENS					1			1			+		-	
Committee   Comm			SCRE															
WELL DESCRIPT   WELL DESCRIPT   WELL DESCRIPT   WELL DESCRIPT   CURRENT VELL DETERMAL   CURRENT VELL DETERMAN   CURRENT VELL												+-			1			
CURRENT FORMATION:   SPACE	Deridingo nz		1 7503001					310										
CURRENT PROMISES CHRIST PROMIS				OF(	(kg/m³)	UF	(kg/m³)											
CURRENT ACTIVE STORMS   SPREN (SS)		CHE							-			+	$-\!$		<b></b>			
## ACTIVE SYSTEM FLUID TYPE   PRESENT DEPTH   PROPRIETE GLIGGS   1   2   40																		
PRESENT DEPTH						RUN	CASING		T			Т						
PRESENT EPTH		ACTIV						42				—						
### PART PART OF THE PART OF T	PRESENT DE	EPTH	FLUI	J FROPER			#2	#3	<del>                                     </del>			+-						
SAMPER   S						2397												
ELOMAN TEMPERATURE   deg.C									1			+			ļ			
ELUND ENSITY			URE		deg.(							_	DAILY PRO	DUCT	COST	S		
PRESIDER GRADIENT	FUNNEL VIS	COSITY			s/	L 55							ENGINEER	ING CO		\$		
PH			г												TTO 0.			14,684,25
### Activity:    20 pm   30 pm		OI VALUEN	<u> </u>		KPa/r		1		<b>—</b>		DAILY ACT							14,684.25
### Aug. 17, Run in, drill lateral section starting at 0045 hrs to 1908 m, circ, trip for pipe swap.  ### Aug. 17, Run in, drill lateral section starting at 0045 hrs to 1908 m, circ, trip for pipe swap.  ### Aug. 18, Run in, drill lateral section starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in. heel, ru	RHEOMETER	R READIN	GS		600 rpr	n 52			A makin atau									
100 pm   25   25   25   25   25   25   25   2											Hataral coc	tion d	arting at	004E L	rc to 1000 :	m nisa tsim	for nin	_
Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 31, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 13, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 13, Run in, drill head starting at 0130 hrs to TD at 2397 m - 1715 hrs. Circ, wiper trip to heel, run in.   Agu 13, Run in, drill head starting at 0130 hrs, to TD at 2005, run casing.   FV 2 31 deg C								-		man in, anii	iateras sec		arting at	JU <del>-</del> J 11	13 10 1300 1	ii, ciic, tiip	ioi pip	-
Some										Run in drill	head start	ting at	0130 hrs	to TD :	at 2397 m =	1715 hrs (	ire wir	er trin
Age 19; Run in, wash thru dog leg at 2075 - 2100 m, circ, spot lube pill, pooh, lay down tools, run casing.    Power   10 min, (Pe)   6   10 min, (Pe)   6   10 min, (Pe)   6   10 min, (Pe)   6   10 min, (Pe)   70 min				_	30 rpn	n					uu stait	<u> a.</u> .		ID a	2001 111"	۰۰ سا ۱۱۱ ک. ر	, WIE	- uip
Section   10 sec, (Po)   2.5   10 sec, (Po)   30 min, (Po)   6   30 min, (Po)   6   70 min, (Po)   6   70 min, (Po)   6   70 min, (Po)   6   70 min, (Po)							-				h thru doe	leg at	2075 - 21	.00 m	circ, spot h	be pill, por	h, lav r	lown
10 nin. (Pa)   6   30 nin. (Pa)   70 nin. (Pa)	GEL STRENG	STHS									405	-646		119	, 5,50010	_ p, poc	., , .	
PV @ 31 deg C					10 min. (Pa	) 6			1 '									
P	DV @ 21 4	- C					ļ											
N	YP @ 31 de						<u> </u>		1									
API FLUID LOSS	n					0.491			RECOM	MENDATIO	NS:							
FILER CAKE THOKKIESS		200						1	4									
SAND   %   0.5			ESS				-	-	1									
Oil	SAND				9	6			1		0.5							
TOTAL SOLIDS		202																
MST								1									xs Des	co tnru
Hide  GRAVITY SOLIDS							1	-	cnem b	J: OVEF 45 - !	ou minutés	and n	ın water	at ou L	, min for 50	minutes.		
RIGH	HIGH GRAVE				% by volume	e			Thank	·«								
DRILLED SOLIDS   Kg/m²   191.62							<b></b>		Hank	-								
DRILLED SCUIDS																		
ALKAINITY Pf mL 0.50	DRILLED SO	LIDS			kg/m	170.62			1									
HYDROXYL ION	ALKALINITY						ļ		4									
CARBONATE ION	HYDROXYI I	ION	IVII															
BICARBONATE ION	CARBONATE	ION			mg/l	L 120	<b></b>	-	1									
FREE LIME					mg/l	L 366			1									
TOTAL HARDNESS   mg/L   20		NIIY			mg/l	3		-	1									
CALCIUM ION		ONESS					<del> </del>		1									
CHLORIDES ION   mg/L	CALCIUM ION	Ν			mg/L	. 20			1									
POTASSUM ION									-									
FILTRATE DENSITY (for brine/allicate)   S.G.   Make Up Water pH   Make Up Water pH   Make Up Water Alkalinity   Make Up Water Ca++ mg/L   Make Up									1									
Make Up Water Alkalinty	FILTRATE D	ENSITY (fo	or brine/silicate	e)					1									
Make Up Water C3++   mg/L							ļ <u>-</u>		4									
RIG UP AND TEAR DOWN			у		ma/		+		1									
RIG UP AND TEAR DOWN	PHPA Excess	\$			kg/m:	3			1									
RIGUPAND TEAR DOWN	Amine Excess	s			L/m:	3												
RIGUPAND TEAR DOWN								1										
2   DRILL ACTUAL   11   WRELINEL COS   20   DIRECTIONAL WORK   29						1		RIG TIM										
3         REAMING         12         RUN CASE & CEMENT         21         SAFETY MEETING         30           4         CORING         13         WAIT ON CEMENT         22         MDX COM         10           5         CONDITION MUD & CIRC         14         NIPPLE UP B.O.P.         23         TIGHT HOLE / WASH         10           6         TRIPS         15         TEST B.O.P.         24         CIRC GAS / WELL FLOW         10           7         RIG SERVICE         16         DRILLISTEM TEST         25         MISC         TOTAL HOURS           8         REPAIR RIG         17         PI-LUG BACK         26         Other         Cumulative Drilling Hours:           9         CUT OFF DRILLING LINE         18         SQUEEZE CEMENT         27         Total N.P.T.			DOWN				EY		19 STU	CK / FISHING				$\equiv$				
CORING							ENT					T				_		
5         CONDITION MUD & CIRC         14         NIPPLE UP B.O.P.         23         TIGHT HOLE / WASH         15         TEST B.O.P.         24         CIRC QAS / WELL FLOW         15         TOTAL HOURS         16         DRILLISTEM TEST         25         MISC         TOTAL HOURS         7         TOTAL HOURS         17         PLUG BACK         26         Other         Cumulative Drilling Hours:         17         Total N.P.T.         TOTAL N.P.T.				-+									30	+-				
7         RIG SERVICE         16         DRILLSTEM TEST         25         MISC         TOTAL HOURS           8         REPAIR RIG         17         IPLIG BACK         26         Other         Cumulative Drilling Hours:           9         CUT OFF DRILLING LINE         18         ISQUEEZE CEMENT         27         Total N.P.T.	5 CONDITIO	S DUM NO	CIRC		14 NIPP	LE UP B.O.P.			23 TIGH	THOLE / WAS				L				
8         REPAIR RIG         17         PLUG BACK         26         Other         Cumulative Drilling Hours:           9         CUT OFF DRILLING LINE         18         ISQUEEZE CEMENT         27         Total N.P.T.				ightarrow							FLOW	$\Box$	$\bot$					
9 CUT OFF DRILLING LINE 18 ISQUEEZE CEMENT 27 Total N.P.T.		ACE.				LOUEM (EST				,		- 1	1	HOTAL	L HOURS			
	7 RIG SERV			-					26 Other				-	Cumul	lative Drilling I	lours:		
	7 RIG SERV 8 REPAIR R	SIG.	LINE	$\mp$	17 PLUC	3 BACK	т			г						lours:		

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