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 # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N WATERFRONT PKWY BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67206 + 5514
Contact Person: Michael J Reilly
Phone: (316) 265-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Keith Reavis
Purchaser: None

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 #:

08/09/2022	08/18/2022	08/18/2022
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-155-21790-00-00
Spot Description:
S2 - SW - NW - NE Sec. 15 Twp. 24 S. R. 8 ☐ East ☑ West
1270 Feet from ☑ North / ☐ South Line of Section
2310 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Reno
Lease Name: BIRKET TRUST Well #: 1-15
Field Name: WILDCAT
Producing Formation: None
Elevation: Ground: 1640 Kelly Bushing: 1645
Total Vertical Depth: 4210 Plug Back Total Depth: 4142
Amount of Surface Pipe Set and Cemented at: 134 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: 34000 ppm Fluid volume: 1200 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Mike Kelso
Lease Name: Dealy SWDW License #: 31528
Quarter NE Sec. 31 Twp. 24 S. R. 9 ☐ East ☑ West
County: Reno Permit #: D-31428

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: 10/12/2022
☐ **Confidential Release Date:** 10/11/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 10/12/2022

Page Two

Operator Name: Grand Mesa Operating Company Lease Name: BIRKET TRUST Well #: 1-15

Sec. 15 Twp. 24 S. R. 8 ☐ East ☑ West County: Reno

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	134	H-325	200	N/A
Production	7.875	5.50	15.5	4190	H-LD	200	50sx rat hole

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
3764	3778

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4106	4113			8/25/22 Prostim pumped 750gals 7.5% MCA flushed 2% KCL wtr
			CIBP Cast Iron Bridge Plug	4085	8/26/22 Set CIBP & Perfed Miss
4	3764	3774			8/29/22 Pumped 500gals 15% MCA w/2% KCL wtr
4	3774	3778			8/30/22 Perf Miss, 9/14/22 Prostim pumped 750gals 15% NEFE

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	BIRKET TRUST 1-15
Doc ID	1664602

All Electric Logs Run

CDCN PE Log
DI Log
Micro Log
Sonic Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	BIRKET TRUST 1-15
Doc ID	1664602

Tops

Name	Top	Datum
Tarkio	2393	-752
Topeka	2562	921
Heebner	3021	-1380
Lansing	3230	-1589
Hushpuckney	3541	-1900
BKC	3599	-1958
BPL	3730	-2089
Mississippian	3761	-2120
Kinderhook	3840	-2199
Viola	4089	-2448
Simpson Shale	4100	-2459
Arbuckle	4175	-2534
LTD	4211	0

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	BIRKET TRUST 1-15
Doc ID	1664602

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	134	H-325	200	N/A
Production	7.875	5.50	15.5	4190	H-LD	200	50sx rat hole

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24 S RNG: 8 W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 Sur
Field Name: Unnamed
Pool: Wildcat
Job Number: 598
API #: 15-155-21790-00-00

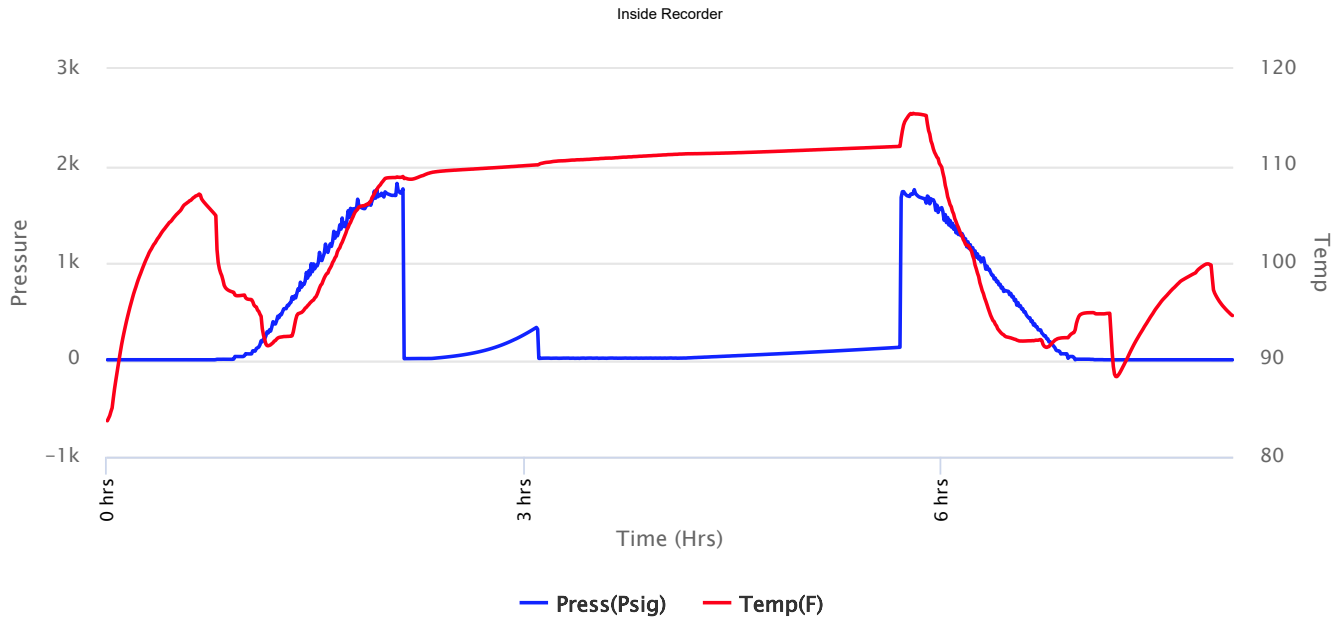
Operation:
Uploading recovery & pressures

DATE
August
14
2022

DST #1 **Formation: Hertha** **Test Interval: 3568 - 3594'** **Total Depth: 3700'**

Time On: 10:49 08/14 Time Off: 18:41 08/14
Time On Bottom: 12:53 08/14 Time Off Bottom: 16:18 08/14

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
31'	Minutes: 10	Minutes: 45	Minutes: 60	Minutes: 90
	Current Reading:	Current Reading:	Current Reading:	Current Reading:
	.1" at 10 min	0" at 45 min	1.1" at 60 min	0" at 90 min
	Max Reading: .1"	Max Reading: 0"	Max Reading: 1.1"	Max Reading: 0"



Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24 S RNG: 8 W
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Recovered

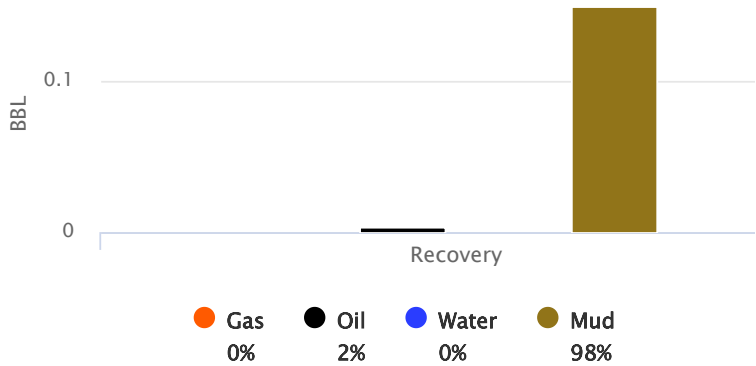
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
31	0.15252	SLOCM	0	2	0	98

Total Recovered: 31 ft
Total Barrels Recovered: 0.15252

Reversed Out
NO

Initial Hydrostatic Pressure	1695	PSI
Initial Flow	12 to 14	PSI
Initial Closed in Pressure	**335**	**PSI**
Final Flow Pressure	15 to 19	PSI
Final Closed in Pressure	**130**	**PSI**
Final Hydrostatic Pressure	1692	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	61.3	%

Recovery at a glance



GIP cubic foot volume: 0

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24 S RNG: 8 W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 Sur
Field Name: Unnamed
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Operation:
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2022

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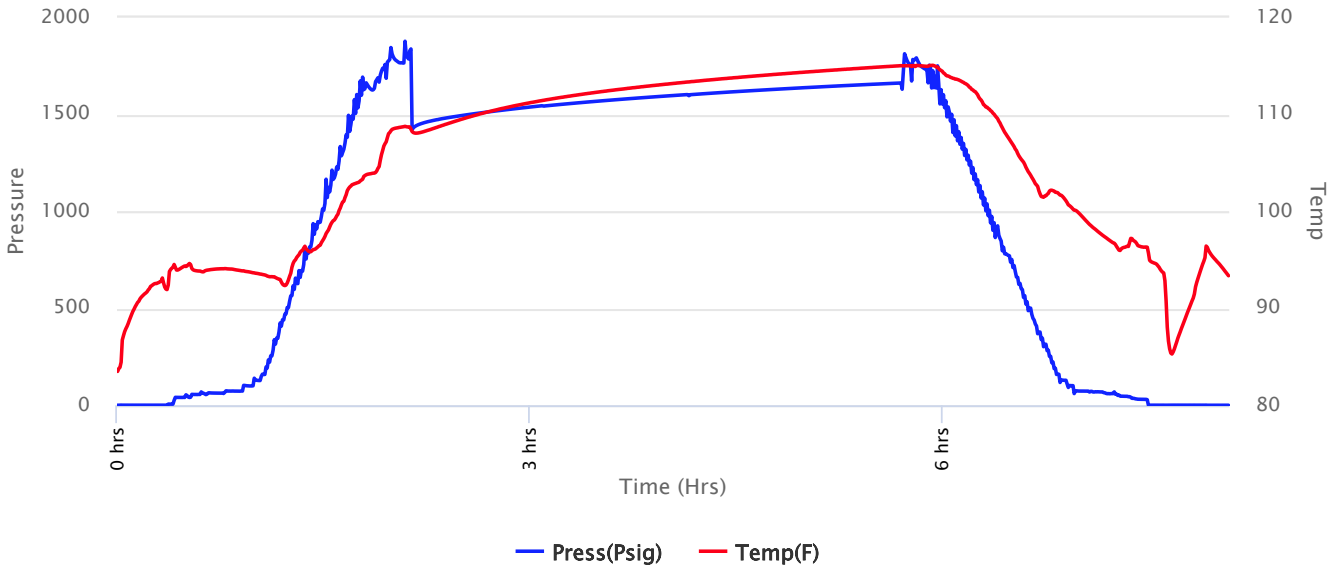
Time On: 10:49 08/14 Time Off: 18:41 08/14
Time On Bottom: 12:53 08/14 Time Off Bottom: 16:18 08/14

BUCKET MEASUREMENT:
1st Open: WSB. Blow did not build.
1st Close: NOBB
2nd Open: WSB. Built to 1 inch in 60 minutes
2nd Close: NOBB

REMARKS:
Below Straddle Packer Held.

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud

Below Straddle Recorder



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Lease: Birket Trust #1-15

SEC: 15 TWN: 24 S RNG: 8 W
County: RENO
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Elevation: 1640 Sur
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Operation:
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2022

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Time On: 10:49 08/14 Time Off: 18:41 08/14
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Down Hole Makeup

Heads Up:	11.86 FT	**Packer 1:**	3563 FT
Drill Pipe: *ID-3 1/2*	3434.29 FT	**Packer 2:**	3568 FT
		Packer 3:	3594 FT
Weight Pipe: *ID-2 7/8*	FT	**Top Recorder:**	3552.42 FT
		Bottom Recorder:	3571 FT
Collars: *ID-2 1/4*	113 FT	**Below Straddle Recorder:**	3693 FT
Test Tool: *ID-3 1/2-FH Jars Safety Joint*	33.57 FT	**Well Bore Size:**	7 7/8
		Surface Choke:	1"
		Bottom Choke:	5/8"
Total Anchor:	26		

Anchor Makeup

Packer Sub:	1 FT
Perforations: (top): *4 1/2-FH*	1 FT
Change Over:	FT
Drill Pipe: (in anchor): *ID-3 1/2*	FT
Change Over:	FT
Perforations: (below): *4 1/2-FH*	24 FT

STRADDLE

Straddle Packer(s):	1 FT
Change Over:	1 FT
Drill Pipe: *ID-3 1/2"*	63.64 FT
Change Over:	1 FT
Perforations (in tail pipe): *4 1/2-FH*	8 FT

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24 S RNG: 8 W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 Sur
Field Name: Unnamed
Pool: Wildcat
Job Number: 598
API #: 15-155-21790-00-00

Operation:
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Time On: 10:49 08/14 Time Off: 18:41 08/14
Time On Bottom: 12:53 08/14 Time Off Bottom: 16:18 08/14

Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 49 **Filtrate:** 9.6 **Chlorides:** 7000 ppm

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24 S RNG: 8 W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 Sur
Field Name: Unnamed
Pool: Wildcat
Job Number: 598
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Operation:
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Time On: 10:49 08/14 Time Off: 18:41 08/14
Time On Bottom: 12:53 08/14 Time Off Bottom: 16:18 08/14

Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D

2nd Open

Time	Orifice	PSI	MCF/D

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 598
API #: 15-155-21790

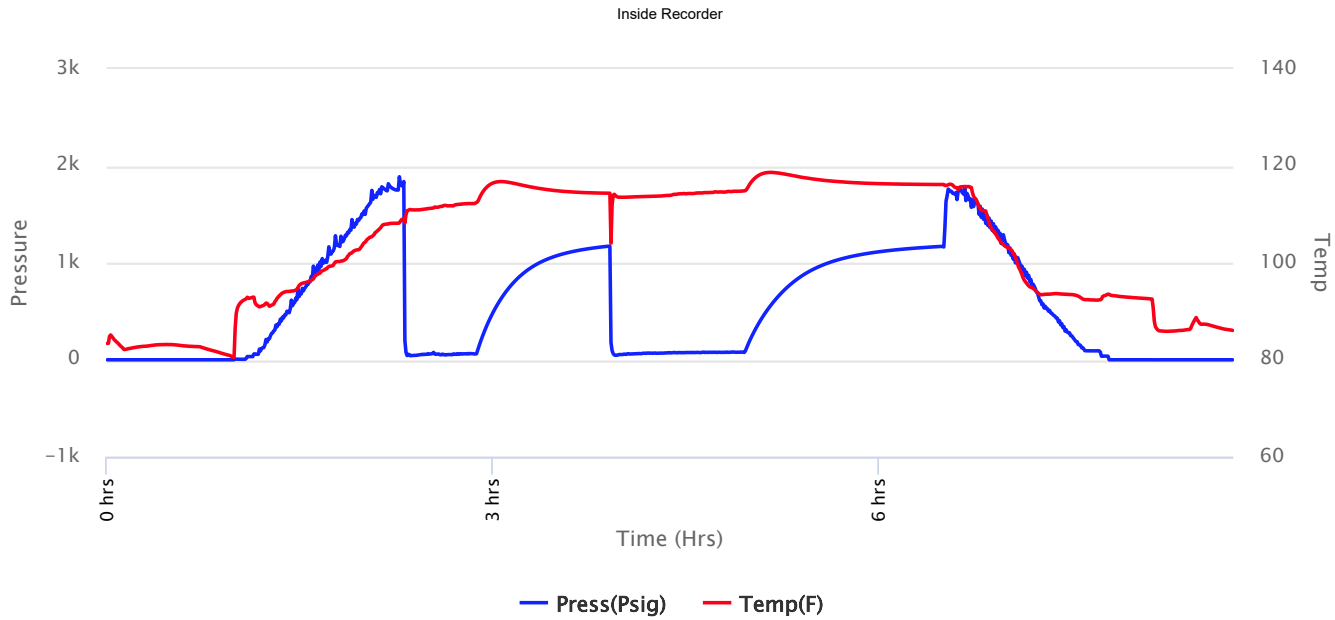
Operation:
Uploading recovery & pressures

DATE
August
15
2022

DST #2 **Formation: Miss** **Test Interval: 3699 - 3769'** **Total Depth: 3769'**

Time On: 03:10 08/15 Time Off: 11:41 08/15
Time On Bottom: 05:25 08/15 Time Off Bottom: 09:25 08/15

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
N/A	Minutes: 30	Minutes: 60	Minutes: 60	Minutes: 90
	Current Reading:	Current Reading:	Current Reading:	Current Reading:
	GTS" at 30 min	0" at 60 min	GTS" at 60 min	0" at 90 min
	Max Reading: GTS"	Max Reading: 0"	Max Reading: GTS"	Max Reading: 0"



Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 598
API #: 15-155-21790

Operation:
Uploading recovery & pressures

DATE
August
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2022

DST #2 **Formation: Miss** **Test Interval: 3699 - 3769'** **Total Depth: 3769'**

Time On: 03:10 08/15 Time Off: 11:41 08/15
Time On Bottom: 05:25 08/15 Time Off Bottom: 09:25 08/15

Recovered

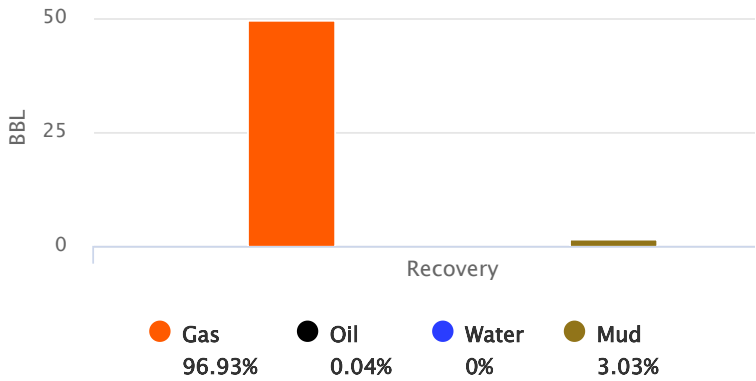
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
3477	49.47771	G	100	0	0	0
73	1.03879	SLOCM	0	1	0	99
113	0.55596	SLOCSLGCM	5	2	0	93

Total Recovered: 3663 ft
Total Barrels Recovered: 51.07246

Reversed Out
NO

Initial Hydrostatic Pressure	1751	PSI
Initial Flow	42 to 61	PSI
Initial Closed in Pressure	**1173**	**PSI**
Final Flow Pressure	46 to 80	PSI
Final Closed in Pressure	**1171**	**PSI**
Final Hydrostatic Pressure	1750	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	0.2	%

Recovery at a glance



GIP cubic foot volume: 277.94867

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 598
API #: 15-155-21790

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BUCKET MEASUREMENT:
1st Open: 1" Blow. BOB in 1 minute.
1st Close: NOBB
2nd Open: BOB Instantly
2nd Close: NOBB

REMARKS:
Gas To Surface in 16 minutes.

Caught Gas Sample 10 minutes into final flow.

Tool Sample: 5% Gas 5% Oil 0% Water 90% Mud

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
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Time On: 03:10 08/15 Time Off: 11:41 08/15
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Down Hole Makeup

Heads Up:	7.28 FT	**Packer 1:**	3693.68 FT
Drill Pipe: *ID-3 1/2*	3560.39 FT	**Packer 2:**	3698.68 FT
		Top Recorder:	3683.1 FT
Weight Pipe: *ID-2 7/8*	FT	**Bottom Recorder:**	3735 FT
		Well Bore Size:	7 7/8
Collars: *ID-2 1/4*	113 FT	**Surface Choke:**	1"
Test Tool: *ID-3 1/2-FH* *Jars* *Safety Joint*	33.57 FT	**Bottom Choke:**	5/8"
Total Anchor:	70.32		

Anchor Makeup

Packer Sub:	1 FT
Perforations: (top): *4 1/2-FH*	1 FT
Change Over:	.5 FT
Drill Pipe: (in anchor): *ID-3 1/2*	31.82 FT
Change Over:	1 FT
Perforations: (below): *4 1/2-FH*	35 FT

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
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Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 49 **Filtrate:** 9.6 **Chlorides:** 7000 ppm

Company: Grand Mesa Operating Company
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SEC: 15 TWN: 24S RNG: 8W
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Time On: 03:10 08/15 Time Off: 11:41 08/15
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Gas Volume Report

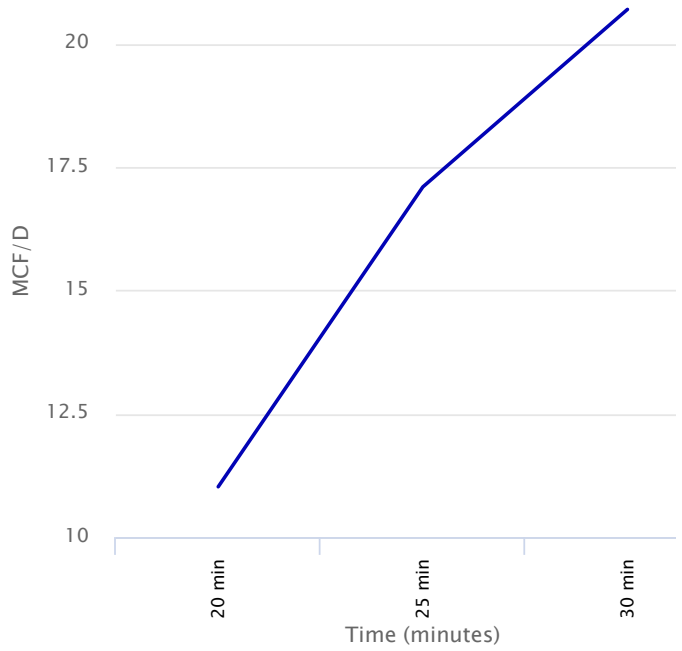
Remarks: Gas to Surface in 16 minutes on First Flow. Caught Gas sample 10 minut.es into second Flow

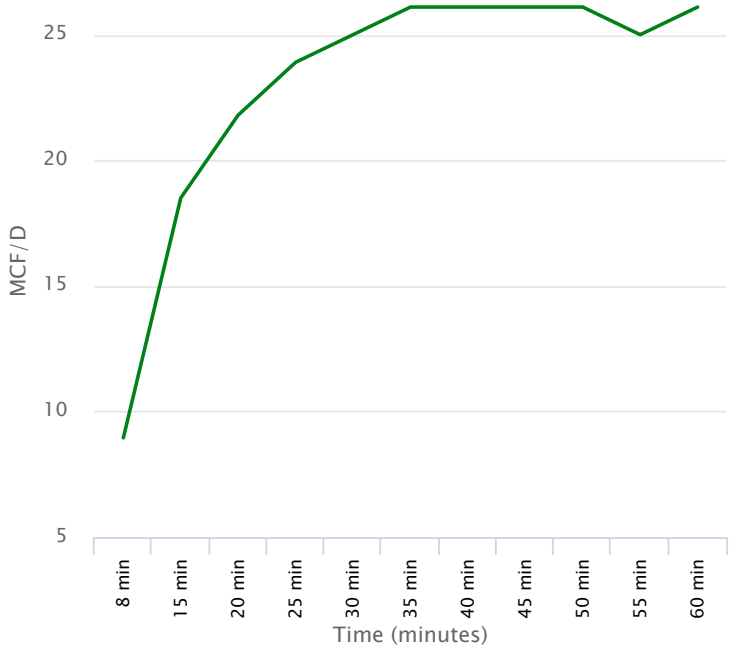
1st Open

Time	Orifice	PSI	MCF/D
20	0.25	1.5	11.02
25	0.25	3.5	17.1
30	0.25	5.0	20.7

2nd Open

Time	Orifice	PSI	MCF/D
8	0.25	1.0	8.95
15	0.25	4.0	18.5
20	0.25	5.5	21.8
25	0.25	6.5	23.9
30	0.25	7.0	25.0
35	0.25	7.5	26.1
40	0.25	7.5	26.1
45	0.25	7.5	26.1
50	0.25	7.5	26.1
55	0.25	7.0	25.0
60	0.25	7.5	26.1





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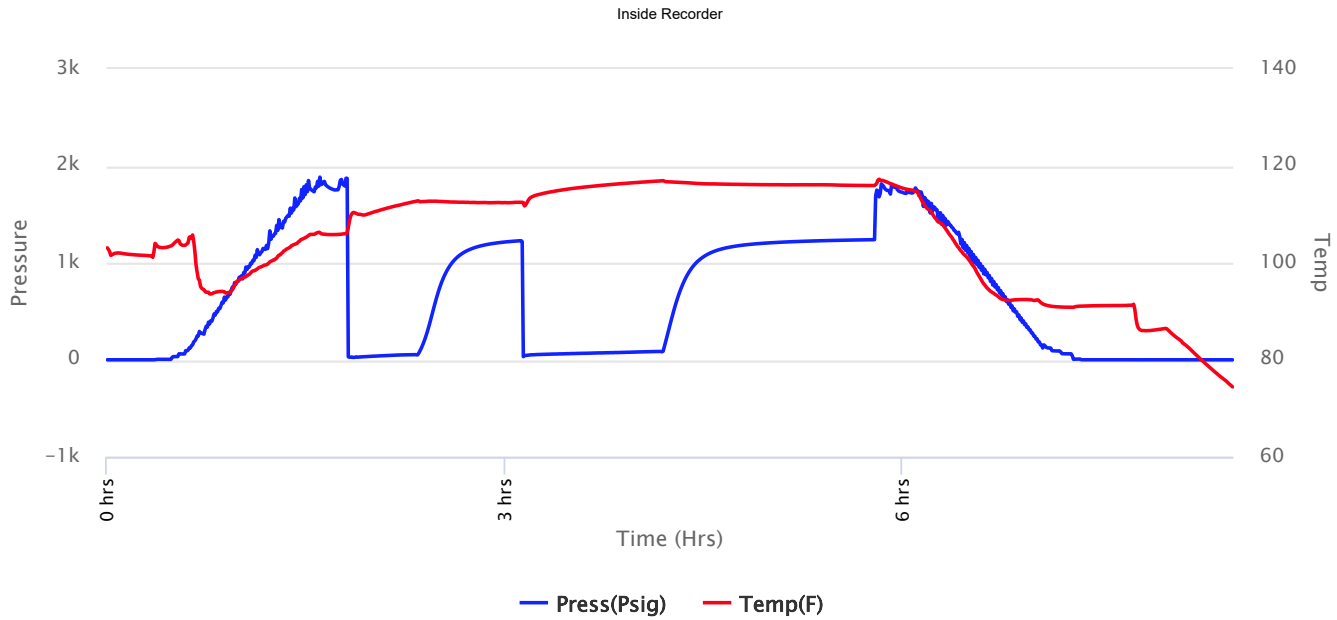
15
2022

DST #3 **Formation: Miss** **Test Interval: 3768 - 3784'** **Total Depth: 3784'**

Time On: 17:49 08/15 Time Off: 02:05 08/16
Time On Bottom: 19:36 08/15 Time Off Bottom: 23:21 08/15

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
2513'	Minutes: 30	Minutes: 45	Minutes: 60	Minutes: 90
	Current Reading:	Current Reading:	Current Reading:	Current Reading:
	44.4" at 30 min	0" at 45 min	232.7" at 60 min	7.1" at 90 min
	Max Reading: 44.4"	Max Reading: 0"	Max Reading: 232.7"	Max Reading: 8.2"



Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 598
API #: 15-155-21790

Operation:
Uploading recovery & pressures

DATE
August
15
2022

DST #3 **Formation: Miss** **Test Interval: 3768 - 3784'** **Total Depth: 3784'**

Time On: 17:49 08/15 Time Off: 02:05 08/16
Time On Bottom: 19:36 08/15 Time Off Bottom: 23:21 08/15

Recovered

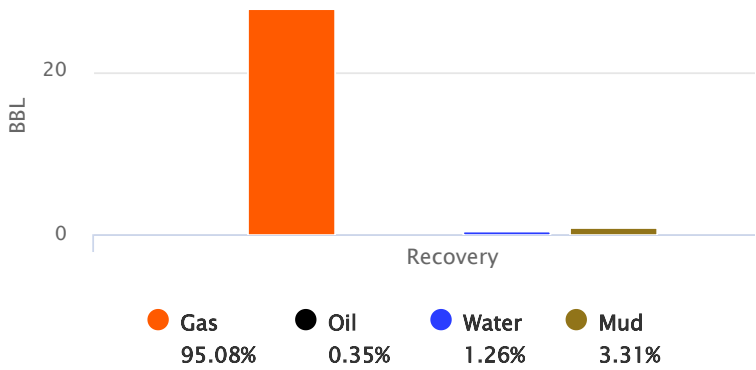
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
1953	27.79119	G	100	0	0	0
63	0.88718	SLOCM	0	10	0	90
56	0.27552	SLOCHWCM	0	5	35	60
56	0.27552	SLMCW	0	0	99	1

Total Recovered: 2128 ft
Total Barrels Recovered: 29.22941

Reversed Out
NO

Initial Hydrostatic Pressure	1754	PSI
Initial Flow	25 to 54	PSI
Initial Closed in Pressure	**1229**	**PSI**
Final Flow Pressure	33 to 86	PSI
Final Closed in Pressure	**1240**	**PSI**
Final Hydrostatic Pressure	1751	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 156.03364

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
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Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 598
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Operation:
Uploading recovery & pressures

DATE
August
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2022

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BUCKET MEASUREMENT:
1st Open: 1" Blow. BOB in 5 minutes
1st Close: NOBB
2nd Open: BOB Instantly
2nd Close: 8 1/4 inch Blow Back

REMARKS:

Tool Sample: 100% Gas 0% Oil 0% Water 0% Mud

Ph: 7

Measured RW: .32 @ 86 degrees °F

RW at Formation Temp: 0.24 @ 117 °F

Chlorides: 15000 ppm

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 104
Elevation: 1640 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 598
API #: 15-155-21790

Operation:
Uploading recovery & pressures

DATE
August
15
2022

DST #3 **Formation: Miss** **Test Interval: 3768 - 3784'** **Total Depth: 3784'**

Time On: 17:49 08/15 Time Off: 02:05 08/16
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Down Hole Makeup

Heads Up:	33.03 FT	**Packer 1:**	3763 FT
Drill Pipe: *ID-3 1/2*	3655.46 FT	**Packer 2:**	3768 FT
		Top Recorder:	3752.42 FT
Weight Pipe: *ID-2 7/8*	FT	**Bottom Recorder:**	3770 FT
		Well Bore Size:	7 7/8
Collars: *ID-2 1/4*	113 FT	**Surface Choke:**	1"
Test Tool: *ID-3 1/2-FH* *Jars* *Safety Joint*	33.57 FT	**Bottom Choke:**	5/8"
Total Anchor:	16		

Anchor Makeup

Packer Sub:	1 FT
Perforations: (top): *4 1/2-FH*	FT
Change Over:	FT
Drill Pipe: (in anchor): *ID-3 1/2*	FT
Change Over:	FT
Perforations: (below): *4 1/2-FH*	15 FT

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
County: RENO
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Elevation: 1640 GL
Field Name: Wildcat
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Operation:
Uploading recovery & pressures

DATE
August
15
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Time On: 17:49 08/15 Time Off: 02:05 08/16
Time On Bottom: 19:36 08/15 Time Off Bottom: 23:21 08/15

Mud Properties

Mud Type: Chem **Weight:** 9.1 **Viscosity:** 46 **Filtrate:** 9.6 **Chlorides:** 6000 ppm

Company: Grand Mesa Operating Company
Lease: Birket Trust #1-15

SEC: 15 TWN: 24S RNG: 8W
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2022

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Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D

2nd Open

Time	Orifice	PSI	MCF/D

DRILLING CONTRACTOR
Company: Grand Mesa Operating Company
Address: 1700 Lincoln, Suite 2700
Denver, CO 80203-4518
Contact: Bill Ryan
Phone: (303) 861-8022
Fax: (303) 861-4023
Rig Number: 1
Type: Mobile Land Rig
Mast: Cantilever Derrick
Power: Diesel Electric
Tool Pusher: Ron Ryan
Cell: (970) 216-0000
Home: (970) 245-0000

GRAND MESA OPERATING COMPANY
Company Representative: Bill Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
Office: (303) 861-8022
Fax: (303) 861-4023

Field Office
Address: 1000 Rosevelt Ave
Rifle, CO 81650
Phone: (970) 625-0000
Fax: (970) 625-0000

Drilling Supervisor
Name: Bill Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
Fax: (970) 625-0000

Drilling Foreman
Name: Ron Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
Fax: (970) 625-0000

Geological Consultant
Name: Ron Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
Fax: (970) 625-0000

Mud Logging Company
Name: Ron Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
Fax: (970) 625-0000

Mud Logger
Name: Ron Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
Fax: (970) 625-0000

Mud Logger Equipment
Name: Ron Ryan
Cell: (970) 216-0000
Home: (970) 245-0000
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Mud Logger Computer
Name: Ron Ryan
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Home: (970) 245-0000
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Mud Logger Computer Software
Name: Ron Ryan
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**Mud Logger Computer Software Version Number Date Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone Offset Time Zone

ELI WIRELINE SERVICES

Please Remit To:
P.O. Box 549
Hays, KS 67601
Phone: (785) 628-6395
Fax: (785) 628-3651

FIELD TICKET No. - 6951

DATE 8/24/02

UNIT # 3362

INVOICE NO.	P.O. NO.	AFE NO.
CUSTOMER Grand Mesa Operating	LEASE Birket Trust	WELL NO. 1-15
ADDRESS	FIELD STATE Ks	COUNTY Reno
	LOCATION 15-24s-8w	
CITY	CASING SIZE & WT. 5½"	TBG. SIZE
STATE ZIP	TYPE OF JOB Perf	
ORDERED BY	TITLE	SERVICE SUPV.

PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
70-210-1000	Service Charge				
	Simpson Sd				
75-805-0065	Perf 4" Slick				
	4106-13 28 shots				

CALLED OUT	ON LOCATION	COMPLETED	
Time	11:15 Time	1:00 Time	TOTAL SERVICE & MATERIALS
Date	8/24 Date	8/24 Date	DISCOUNT
			TAX
*ACCIDENT REPORT MUST BE ATTACHED WHEN NOT SIGNED			TOTAL CHARGES

WITH MY INITIALS, I CONFIRM THAT THE TIME SHOWN IN THE "HOURS" COLUMN, ACCURATELY REFLECTS MY COMPENSABLE TIME.

Employee Name (Print)	Hours	Initials
Gottschalk	5	
Townley		

CUSTOMER AGREES to pay (the "Company") on a net 45 day basis from date of invoice to avoid loss of discount. Invoices older then 45 days are subject to loss of discount on ticket. If Customer disputes any item invoiced, Customer shall, within 20 days after receipt, notify the Company of the item(s) disputed, specifying the reason(s) therefor; payment of the disputed item(s) may be withheld until settlement of dispute, but payment of undisputed portion of invoice shall be made without delay. All payments shall be made at the address shown on the reverse side of this document. In the absence of a separate written contract, CUSTOMER REPRESENTATIVE REPRESENTS AND WARRANTS THAT HE/SHE IS AUTHORIZED TO ENTER INTO THIS AGREEMENT ON BEHALF OF CUSTOMER AND ACCEPTS ALL TERMS AND CONDITIONS AS PRINTED ON THE REVERSE SIDE OF THIS DOCUMENT (WHICH INCLUDES INDEMNITY LANGUAGE THAT ALLOCATES RISKS RELATED TO THE ABOVE DESCRIBED SERVICES). Pricing and extensions, if shown above, are subject to verification and correction at time of invoicing.

X Dan Gottschalk

X
CUSTOMER REPRESENTATIVE

White – Main Canary – Customer Pink – Field

ELI WIRELINE SERVICES

Please Remit To:
P.O. Box 549
Hays, KS 67601
Phone: (785) 628-6395
Fax: (785) 628-3651

FIELD TICKET No. - 6953

DATE 8/26/22

UNIT # 3362

INVOICE NO.	P.O. NO.	AFE NO.
CUSTOMER Grand Mesa Optg. Co.	LEASE Birket Trust	WELL NO. 1-15
ADDRESS	FIELD STATE Ks	COUNTY Reno
	LOCATION 15-24s-8w	
CITY	CASING SIZE & WT. 5½"	TBG. SIZE
STATE ZIP	TYPE OF JOB Perf & Plug	
ORDERED BY	TITLE	SERVICE SUPV.

PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
70-210-1000	Service Charge				
75-820-0055	Set 5.5" CIBP @ 4085'				
	Miss				
75-805-0065	Perf 4" Strip Gun				
	3764-74 40 shots				
	1 carrier				

CALLED OUT	ON LOCATION	COMPLETED		
Time	12:15 Time	1:30 Time	TOTAL SERVICE & MATERIALS	
Date	8/26/22 Date	8/26 Date	DISCOUNT	
			TAX	
*ACCIDENT REPORT MUST BE ATTACHED WHEN NOT SIGNED			TOTAL CHARGES	

WITH MY INITIALS, I CONFIRM THAT THE TIME SHOWN IN THE "HOURS" COLUMN, ACCURATELY REFLECTS MY COMPENSABLE TIME.

Employee Name (Print)	Hours	Initials
Gottschalk	5.5	
Townley		

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X Dan Gottschalk

X [signature]
CUSTOMER REPRESENTATIVE

White – Main Canary – Customer Pink – Field

ELI WIRELINE SERVICES

Please Remit To:
P.O. Box 549
Hays, KS 67601
Phone: (785) 628-6395
Fax: (785) 628-3651

FIELD TICKET No. - 6900

DATE 8/30/22

UNIT # 4817

INVOICE NO.	P.O. NO.	AFE NO.
CUSTOMER Grand Mesa	LEASE Birket Trust #1-15	WELL NO.
ADDRESS	FIELD STATE KS	COUNTY Reno
	LOCATION	
CITY	CASING SIZE & WT.	TBG. SIZE
STATE ZIP	TYPE OF JOB	
ORDERED BY	TITLE	SERVICE SUPV.

PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
	Service Charge		1		
	Miss.				
	4x4 4" Expendable		1		
	shot at 3774-3778				

CALLED OUT	ON LOCATION	COMPLETED		
Time	Time	Time	TOTAL SERVICE & MATERIALS	
			DISCOUNT	
Date	Date	Date	TAX	
*ACCIDENT REPORT MUST BE ATTACHED WHEN NOT SIGNED			TOTAL CHARGES	

WITH MY INITIALS, I CONFIRM THAT THE TIME SHOWN IN THE "HOURS" COLUMN, ACCURATELY REFLECTS MY COMPENSABLE TIME.

Employee Name (Print)	Hours	Initials
Weeden	4	
Townley		

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X [signature]

X _____
CUSTOMER REPRESENTATIVE

White – Main Canary – Customer Pink – Field

CEMENT TREATMENT REPORT

Customer:	GRAND MESA OPERATING CO.	Well:	BIRZEK TRUST 1-15	Ticket:	WP 3205
City, State:		County:	RENO, KS.	Date:	8/9/2022
Field Rep:		S-T-R:	15-24S-08W	Service:	SURFACE PIPE

Downhole Information		
Hole Size:	12 1/4 in	
Hole Depth:	135 ft	
Casing Size:	8 5/8 in	23#
Casing Depth:	134 ft	
Tubing / Liner:	in	
SHOE JT:	20 ft	
Tool / Packer:		
Tool Depth:	114 ft	
Displacement:	7.3 bbls	

Calculated Slurry - Lead	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

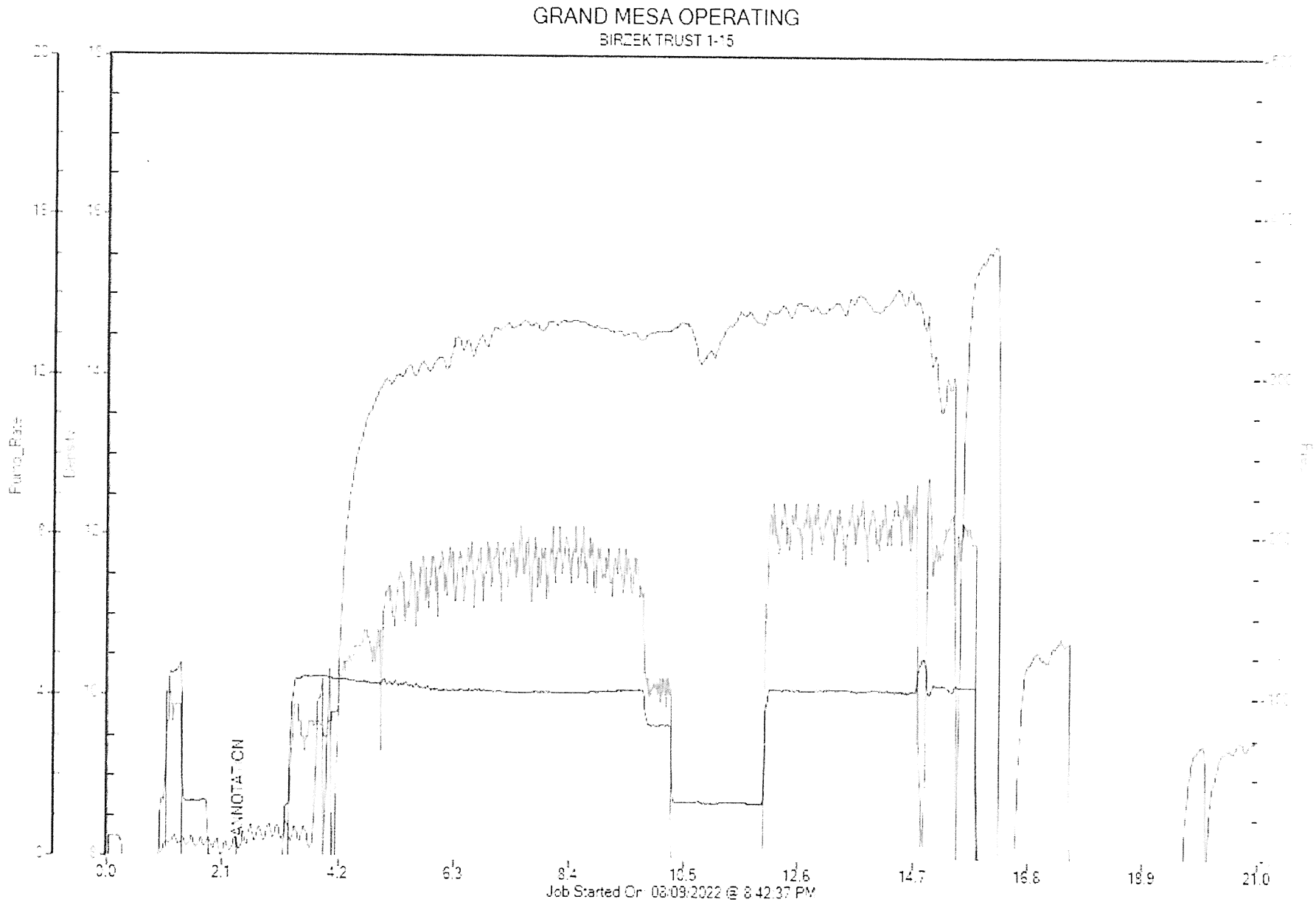
Calculated Slurry - Tail	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.4 gal / sx
Yield:	1.38 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	49.2 bbls
Total Sacks:	200 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:00PM			-	-	ON LOCATION - SPOT EQUIPMENT
9:30PM				-	RUN 3 JTS OF 8 5/8" X 23# CASING
10:05PM				-	CASING ON BOTTOM- BREAK CIRCULATION
10:25PM	5.0	150.0	5.0	5.0	H2o AHEAD
10:30PM	5.0	100.0	49.2	54.2	MIX 200 SKS H-325 BLEND CEMENT @ 14.8 PPG
10:43PM	3.0	100.0	-	54.2	START DISPLACEMENT
10:45PM	3.0	200.0	7.3	61.5	CEMENT @ DESIRED DEPTH
				61.5	CIRCULATION THRU JOB
				61.5	CIRCULATED 10 BBL TO PIT
				61.5	WASH UP PUMP TRUCK
				61.5	JOB COMPLETE,
					THANKS- KEVEN AND CREW

	CREW	UNIT
Cementer:	LESLEY	926
Pump Operator:	SCOTT	523-522
Bulk #1:	KATZER	182-534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.0 bpm	138 psi	62 bbls

ftv: 15-2021/01/25
mplv: 309-2022/07/28


GRAND MESA OPERATING
BIRZEK TRUST 1-15
Pump_Rate
0.0
2.1
4.2
6.3
8.4
10.5
12.6
14.7
16.8
18.9
21.0
Job Started On: 08/09/2022 @ 8:42:37 PM

CEMENT TREATMENT REPORT

Customer:	Grand Mesa Operating Company	Well:	Birket trust 1-15	Ticket:	wp 3240
City, State:	Abbyville Kansas	County:	Reno.Kansas	Date:	8/18/2022
Field Rep:	Jim Crombie	S-T-R:	15-24s-08w	Service:	production casing

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4211 ft
Casing Size:	5 1/2 in
Casing Depth:	4190 ft
Tubing / Liner:	. in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	98.8 bbls

Calculated Slurry - Lead	
Blend:	H-LD
Weight:	15.0 ppg
Water / Sx:	6.2 gal / sx
Yield:	1.49 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	30%
Total Slurry:	40.0 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.78 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.7 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
10:15 p			-	-	on location job and safety
10:20 PM				-	spot trucks and rig up
				-	turbolizers 1,5,7,9,11,13
				-	basket 3
				-	
10:45 PM				-	start casing in the hole
12:45 AM				-	casing on bottom and circulate
1:45 AM				-	start flush
	5.0	170.0	5.0	5.0	fresh water
	5.0	170.0	24.0	29.0	mud flush
	5.0	170.0	5.0		fresh water
1:55 AM					flush in
2:00 AM	2.0	-	12.0		plug rat hole 30 sacks plug mouse hole 20 sacks
2:10 AM					start cement down hole
	5.0	140.0	40.0		mix 150 sacks cement
2:25 AM					cement in shut down
					wash pump and lines and release the plug
2:30 AM					start displacement
	5.5	170.0	20.0		
	5.5	170.0	30.0		
	5.5	170.0	40.0		
	5.5	170.0	60.0		
	5.0	400.0	72.0		lift pressure
	3.5	500.0	90.0		
3:00 AM	3.5	700.0	98.8		plug down.....took plug from 700 to 1600 psi
					release pressure and plug did hold

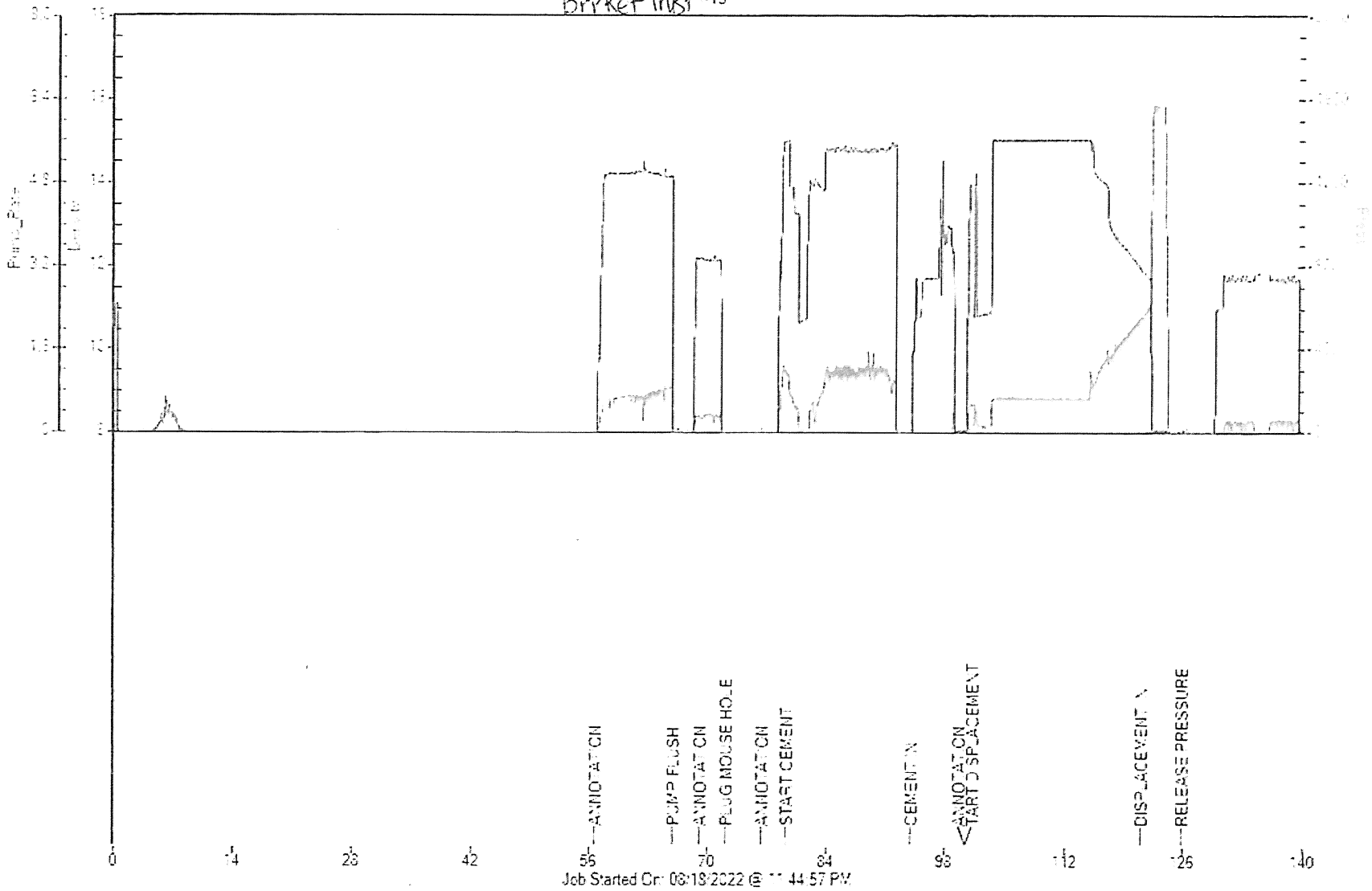
	CREW	UNIT
Cementer:	M Brungardt	916
Pump Operator:	A Clifton	179/521
Bulk #1:	J Tiveno	182/534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.7 bpm	244 psi	497 bbls

ftv: 15-2021/01/25
mplv: 316-2022/08/15

Grand Mesa

Birket Trust 1-15



Job Started On: 08/18/2022 @ 11:44:57 PM