

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 _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ 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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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SORENSEN 1-22
Doc ID	1603713

All Electric Logs Run

COMP NEUTRON DEN PE LOG
DI LOG
SONIC LOG
MICRO LOG
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SORENSEN 1-22
Doc ID	1603713

Tops

Name	Top	Datum
Tarkio	2409	-765
Topeka	2585	-941
Heebner	3051	-1407
Hushpuckney	3549	-1905
BKC	3607	-1963
BPL	3734	-2090
Mississippian	3749	-2105
Kinderhook	3817	-2173
Viola	4067	-2423
Simpson Shale	4086	-2442
LTD	4111	N/A

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SORENSEN 1-22
Doc ID	1603713

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3750	3760			500gals 20%MCA acid,5galRAS- 10,1gal RAS92,40bbbls 2%KCL
4	3760	3770			11/11/21 3750-3770' 750gals 15% NEFE,10gals HFG,
					150# rock salt, 30bbbls 2% KCL Biocide
					11/12/21 3750-3770' - 3,000gals 10% NEFE, 30GALS RAS- 97,
					45GALS HFG- 626, 15GALS RAS-92, 5GAL SDA- 95,
					45BBLS 2% KCL BIOCID
					12/7/21 FRAC - 3750-3770' - 26,000# 30/50 FRAC SD,

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SORENSEN 1-22
Doc ID	1603713

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
					62,000# 20/40 FRAC SD, 9,000# 16/30 RESIN COAT SD



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

FIELD TICKET No. - 5419

DATE 11/10/21
 UNIT # Jeff Cased

INVOICE NO.	P.O. NO.	AFE NO.
CUSTOMER <u>Grand Mesa</u>	LEASE <u>Sorensen #1-22</u>	WELL NO.
ADDRESS	FIELD <u>N/A</u> STATE <u>Ks</u>	COUNTY <u>Reno</u>
CITY	LOCATION <u>22/24s/8w</u>	TBG. SIZE
STATE	CASING SIZE & WT. <u>5.5</u>	TYPE OF JOB <u>Cased / Part</u>
ZIP		

ORDERED BY	TITLE	SERVICE SUPV.			
PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
70-210-1000	CA Secure Chg				
70-255-0100	Pack off		1		
76-255-1120	5.5 T Lubricator		1		
75-805-	4 1/2 EXP 10X4 @ 3760-3720		40 chg		
40 chg					
13ft PETW					
1-A140					

CALLED OUT _____ Time _____ Date	ON LOCATION _____ Time _____ Date	COMPLETED _____ Time _____ Date	TOTAL SERVICE & MATERIALS DISCOUNT TAX TOTAL CHARGES
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WITH MY INITIALS, I CONFIRM THAT THE TIME SHOWN IN THE "HOURS" COLUMN, ACCURATELY REFLECTS MY COMPENSABLE TIME.

Employee Name (Print)	Hours	Initials
<u>Phrenstiel</u>	<u>5.5</u>	
<u>P. Res VMG</u>		

CUSTOMER AGREES to pay (the "Company") on a net 45 day basis from date of invoice to avoid loss of discount. Invoices older than 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.

[Signature]

X _____
 CUSTOMER REPRESENTATIVE

White - Main Canary - Customer Pink - Field

Pro-Stim Chemicals LLC

Acidizing Report

Date 11/9/21

Customer	<u>Grand Mesa</u>	Pro-Stim Chemical Yard	<u>Cunningham</u>	Pro-Stim Number	<u>A-25</u>
Well Name & Number	<u>Sorenson # 1-20</u>		Formation		
County	<u>Reno</u>	State	<u>KS</u>	Interval	<u>3750-60</u>
Well Type:	Completion <input checked="" type="checkbox"/>	Recompletion <input type="checkbox"/>	Workover <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>
	Water <input type="checkbox"/>	Disposal <input type="checkbox"/>	Perf <input checked="" type="checkbox"/>	OH <input type="checkbox"/>	
Job Pumped Via:	Tubing <input type="checkbox"/>	Casing <input type="checkbox"/>	Annulus <input type="checkbox"/>	CTU <input type="checkbox"/>	Combination <input type="checkbox"/>
	Plug Depth	Packer Depth			
Casing Size:	<u>5 1/2</u>	GRD	WT	Depth	Tubing Size: <u>2 7/8</u>
	Spot	<u>3775</u>			
Casing Vol.	Tbg Vol	Ann Vol	OH Vol	Total Displacement	

Customer Representative Signature [Signature]

500 gal 20% MCA
 5 gal Ras-10 40 BBLS 2%
 1 gal Ras-92 KCl
 Biocide

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
1	Acid	SP	pped	6 BBLS		Acid	
10	Acid	3.0		8.5	0		
13	Acid	3.0		11.5	0		
16	Acid	3.0		12.1	0		Acid gone
18	Flush	3.0		15.0	0		
21	Flush	3.0		20.0	0		
22	Flush	3.0		23.2	0		well loaded
25	Flush	0		23.4	0		Vacuum
30	Flush	0		23.7	0		Vacuum
35	Flush	0		24.0	0		Vacuum
40	Flush	0		24.5	0		Vacuum
45	Flush	0		25.0	0		Vacuum
50	Flush	0		25.3	250		250-0 30 sec
55	Flush	0		25.6	250		" "
60	Flush	0		25.9	250		" "
65	Flush	0		26.3	500		500-100 30 sec
75	Flush	0		27.5	500		" "
90	Flush	0		28.5	750		750-100 30 sec
100	Flush	0		29.5	750		" "
110	Flush	.25		31	990		
115	Flush	.40		32	880		
120	Flush	.75		34	750		

Treatment Synopsis

Avg Inj Rate	Fluid BPM	Total Injected		H2O	Acid	Oil
	<u>.60</u>			<u>22</u>	<u>12</u>	
Treating Prs	Max	Final	Avg.	ISIP	5'SI	10'SI
	<u>990</u>	<u>750</u>	<u>800</u>	<u>700</u>	<u>540</u>	<u>490</u>
					15'SI	
					<u>440</u>	
AR					20	25
					<u>400</u>	<u>360</u>
						<u>34</u>

Pro-Stim Chemicals LLC

Date 11-11-21

Acidizing Report

Customer: **GRAND MESA** Pro-Stim Chemical Yard: **CUNNINGHAM** Pro-Stim Number: **A-5**

Well Name & Number: **SORENSEN #1-22** Formation: _____

County: **RENO** State: **KS** Interval: **3750-70**

Well Type: Completion Recompletion Workover Oil Gas Water Disposal Perf OH

Job Pumped Via: Tubing Casing Annulus CTU Combination Plug Depth: _____ Packer Depth: **3710**

Casing Size: **5 1/2** GRD WT Depth Tubing Size: **2 7/8** Spot _____

Casing Vol: **1.43** Tbg Vol **21.5** Ann Vol _____ OH Vol _____ Total Displacement: **22.93 + 6 OVER**

Customer Representative Signature:  **750 gal 15% NEFE 10 gal B HPLG, 150# Rock Salt 30 BBL 2% KLL Biocide**

Treatment Record

Observations/Descriptions	Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure	
						Tubing	Casing
START ACID	0	ACID	4.19		1.56	10	
START SALT	1	"	4.19		2	0	
SALT IN	2	"	4.15		4	0	
ACID OUT	5	"	4.2		19.95	0	
ON P	5	FLUSH	2.65		20	0	
LOADED	7	"	1.45		21.42	660	
PLUG HIT	8	"	3.02		23.08	1000	
	9	"	2.28		25.98	930	
	10	"	2.25		27.67	840	
	12	"	2.30		31.38	770	
	15	"	2.29		42.79	810	
JOB COMPLETE	18	"	2.32		48	820	
ISIP	18	"	0		48	650	

Directions	Product	Qty	Product	Qty	Product	Qty

Operator Name: _____

Unit #: _____

Hours: _____

Treatment Synopsis

Avg Inj Rate	Fluid BPM 2.5	Total Injected	H2O 30	Acid 18	Oil
Treating Pts	Max 1000	Final 820	Avg. 850	ISIP 60	5'SI 520
				10'SI 470	15'SI 410
				20 360	25 300
				30 250	

UAR-1

Pro-Stim Chemicals LLC

Acidizing Report

Date 11-12-21

Customer ERLAND MESA Pro-Stim Chemical Yard Cunningham Pro-Stim Number A-6

Well Name & Number SORENSEN #1-22 Formation _____

County RENO State NV Interval 3750-70

Well Type: Completion Recompletion Workover Oil Gas Water Disposal Perf OH

Job Pumped Via: Tubing Casing Annulus CTU Combination Plug Depth _____ Packer Depth 3710

Casing Size: 5 1/2 GRD _____ WT _____ Depth _____ Tubing Size: 2 7/8 Spot _____

Casing Vol. 1.5 Tbg Vol 21.5 Ann Vol _____ OH Vol _____ Total Displacement 23.0

Customer Representative Signature _____
 30 gals RAS-97, 45 gals HFG-626, 915 gals RAS-92;
 Treatment Record 5 gals SDA-95; 45 bbls 2% KCL Biocide

Observations/Descriptions	Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure	
						Tubing	Casing
		ACID	4.0		12.0	0	
LOADED		"	1.0		21.0	0	
			6.5		28.0	1550	
			6.5		38.0	1500	
			6.5		48.0	1480	
			6.5		58.0	1470	
			6.5		68.0	1460	
		FLUSH	6.5		72.0	1460	
		"	6.75		78.0	1500	
			6.75		88.0	1510	
			6.75		98.0	1520	
			6.75		108.0	1500	
			-		114.6	1500	
TOTAL LOAD 114.6 bbls							
ISIP - 700 PSI							

Directions	Product	Qty	Product	Qty	Product	Qty
45 MIN @ 440 PSI, FLOW BACK TO TRUCK: 9 bbls						
Operator Name: SHUT IN						
Unit #: 105.6						
Hours:						

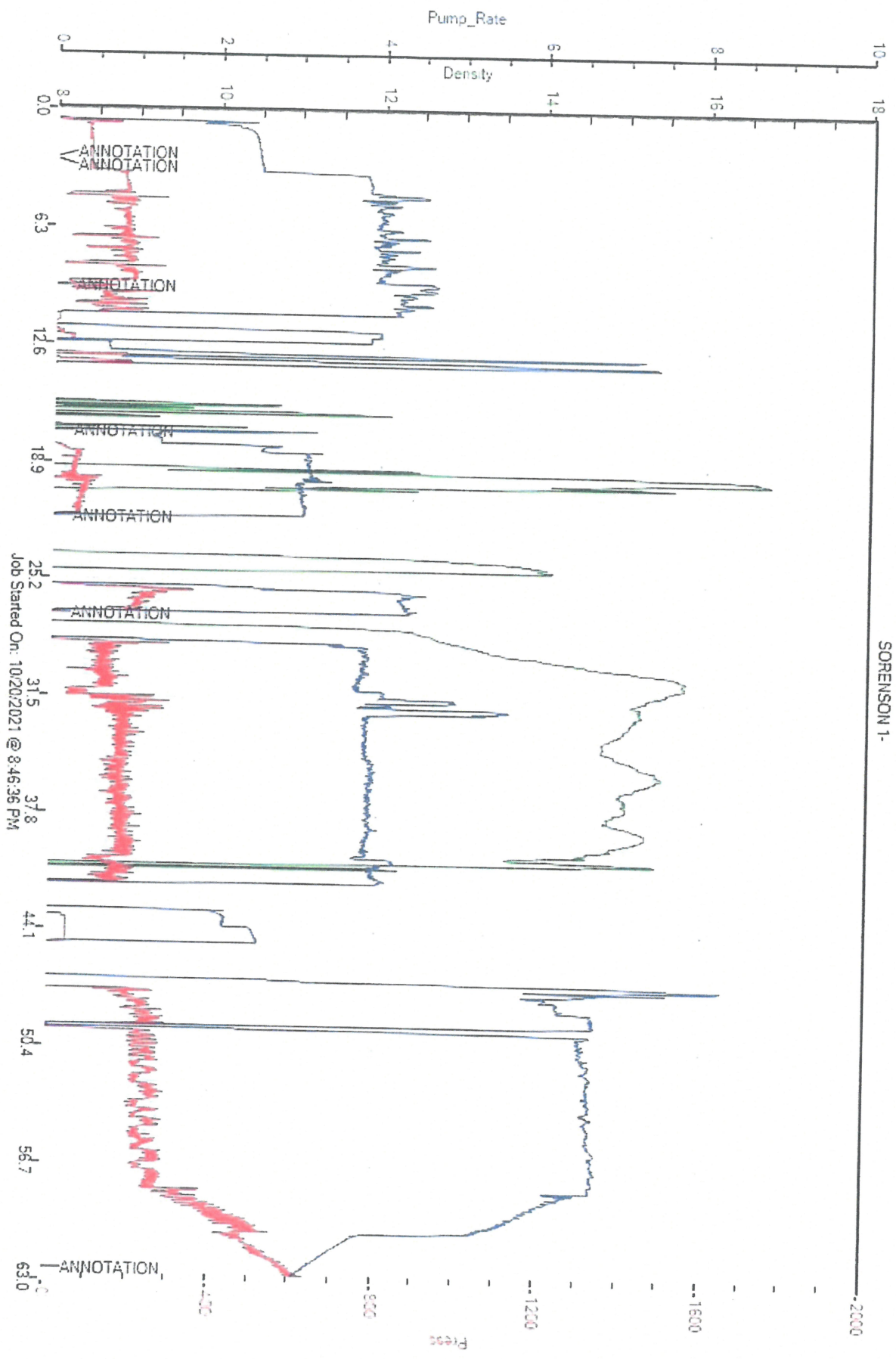
Treatment Synopsis

Avg Inj Rate	Fluid BPM <u>6.5</u>	Total Injected	H2O <u>42.5</u>	Acid <u>72</u>	Oil _____
Treating Prs	Max <u>1550</u>	Final <u>1500</u>	Avg. <u>1500</u>	ISIP <u>900</u>	5'SI <u>570</u> 10'SI <u>540</u> 15'SI <u>520</u>
					20 <u>500</u> 25 <u>480</u> 30 <u>470</u>

UAR-1

440 @ 45 MIN

GRAND MESA
SORENSEN 1-



Job Started On: 10/20/2021 @ 8:46:36 PM

**GRAND
MESA****OPERATING COMPANY**

(316) 265-3000
FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Sorenson
Well Id: 1-22
Location: 1680' FSL & 2253' FWL, Sec 22-T24S-R08W, Reno County, Kansas
License Number: API: 15-155-21786 **Region:** Reno County
Spud Date: 10/12/2021 **Drilling Completed:** 10/19/2021
Surface Coordinates: NAD83
Lat: 37.9457864, **Long:** -98.1894511
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 1639' **K.B. Elevation (ft):** 1644'
Logged Interval (ft): 2410' **To:** RTD **Total Depth (ft):** 4110'
Formation: Simpson SS at RTD
Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Grand Mesa Operating Company
Address: 1700 N. Waterfront Parkway; Bldg. 600
Wichita, KS 67206-5514
316-265-3000

GEOLOGIST

Name: Kent R. Matson
Company: Matson Geological Services, LLC
Address: 33300 W. 15th Street S.
Garden Plain, Kansas 67050
316-644-1975; kent4m@hotmail.com



COMMENTS

Grand Mesa Company Geologist: Steve Stribling, 316-265-3000 (office).

Drilling Contractor: Murfin Drilling Company Inc., Rig #104.

Tool Pusher: Scott Piland, 620-639-1843 (cell).

Gas Detector System (Iball/Bloodhound): Keith Reavis, 620-617-4091.

Surface Casing: 8 5/8" set at 163' (KB) w/200 sx cement.

Production Casing: Based on field observations of drill cuttings and electric log review, production casing (5.5") was installed to further evaluate potential oil production.

Mud by: MudCo/Service Mud, Inc.; Brad Bortz, 620-793-2421 (cell).

DST's by: Trilobite Testing: Matt Smith, 785-259-0746 (cell).

Logs by: ELI Wireline (CND w/PE, DI w/SP, Micro, Sonic), Jason Cappellucci, 785-628-6395 (office).

RTD= 4110', -2466'.

LTD= 4111', -2467'.

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Tarkio	2412'	-768	2409'	-765
Topeka	2588'	-944	2585'	-941
Heebner	3052'	-1408	3051'	-1407
Hushpuckney	3550'	-1906	3549'	-1905
Base KC	3608'	-1964	3607'	-1963
Base Penn LS	3734'	-2090	3734'	-2090
Mississippian	3750'	-2106	3749'	-2105
Kinderhook	3816'	-2172	3817'	-2173
Viola	4066'	-2422	4067'	-2423
Simpson Shale	4086'	-2442	4086'	-2442
RTD	4110'	-2466		
LTD			4111'	-2467

ROCK TYPES

LITHOLOGY

	Anhy
	Cht
	Coal
	Congl
	Dol
	Gyp
	Lmst
	Salt
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Carb sh
	Dol
	Dtd
	Gry sh
	Sandy lms
	Shale
	Sltstn
	Shlyslts

	Silty sh
	Sdy dolo
	Silty dolo
	Shy dolo
	Shaly ls

FOSSIL

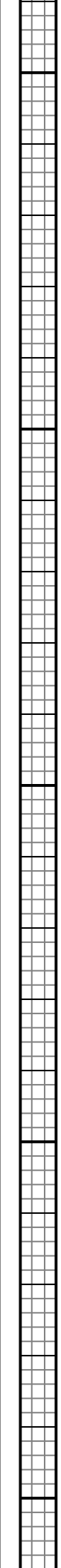
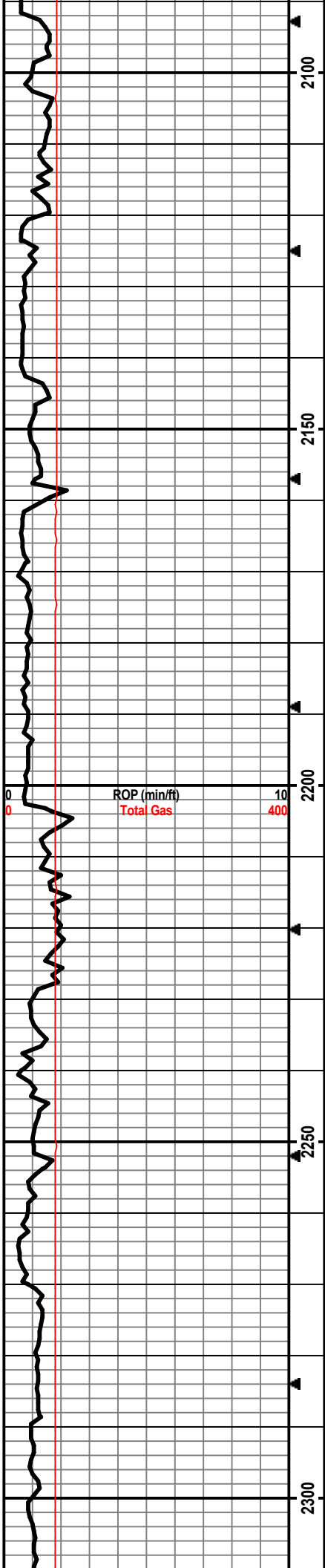
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	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite

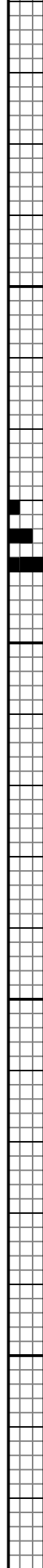
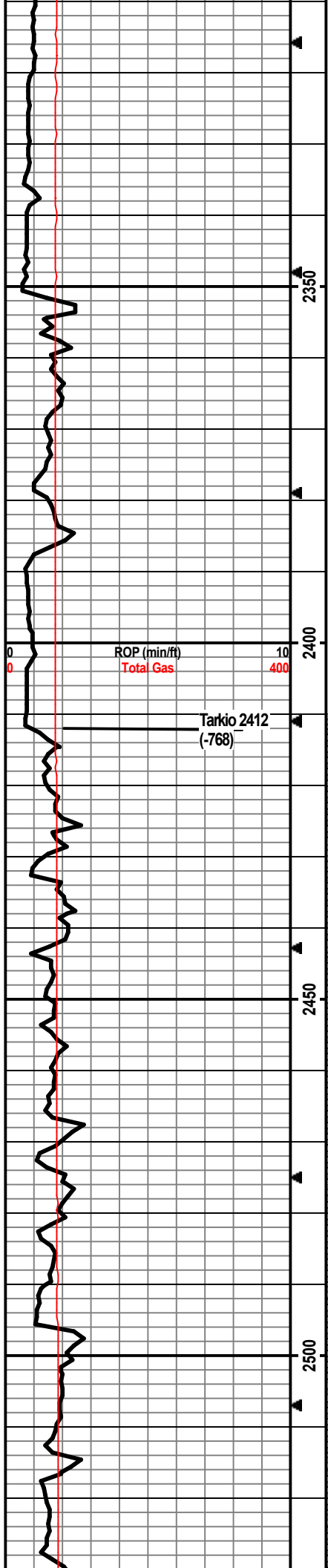
MINERAL

	Ostra		Ferrpel
	Pelec		Ferr
	Pellet		Glau
	Pisolite		Gyp
	Plant		Hvymin
	Strom		Kaol
	Fuss		Marl
	Oomold		Minxl
			Nodule
			Phos
			Pyr
	Anhy		Salt
	Arggrn		Sandy
	Arg		Silt
	Bent		Sil
	Bit		Sulphur
	Brecfrag		Tuff
	Calc		Chlorite
	Carb		Dol
	Chtdk		Sand
	Chtlt		Silty
	Dol		
	Feldspar		

Rate of Penetration (ROP)		Depth	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
ROP (min/ft)	Total Gas						
0	0	19				Morning Report Depth/Activity (7:00 am) 10/12/2021, MIRU; Spudded; Drilled to 165', set surface casing. 10/13; @ 165', WOC. 10/14; Drilling @ 1521'. 10/15; Drilling @ 2538'. 10/16; Drilling @ 3396'. 10/17; CTCH after DST#1 @ 3590'. 10/18; CFS @ 3770'. 10/19; Drilling @ 4050', TD @ 4110'. 10/20; Logged; set and cemented 5.5" casing.	Mud-Co/Service Mud Inc. Check #1 @ 0' 10/12/21, predrilling instructions. Mud-Co/Service Mud Inc. Check #2 @ 242' 10/13/21 09:00am wt vis pH chl 8.5 27 7 n/a Filt LCM n/c 0 Mud-Co/Service Mud Inc. Check #3 @ 1780' 10/14/21 12:45pm wt vis pH chl 9.5 28 7 100000 Filt LCM n/c 0 Mud-Co/Service Mud Inc. Check #4 @ 2629' 10/15/21 08:45am wt vis pH chl 9.4 32 7 92000 Filt LCM n/c 2 Mud-Co/Service Mud Inc. Check #5 @ 3520' 10/16/21 09:30am wt vis pH chl 9.0 49 10.5 8000 Filt LCM 8.8 2
		1950				Formation tops and lithologies have been adjusted to correlate to the electric log.	Mud-Co/Service Mud Inc. Check #5 @ 3520' 10/16/21 09:30am wt vis pH chl 9.0 49 10.5 8000 Filt LCM 8.8 2
0	0	2000				ROP Data begins @ 2000' on 10/14/2021. Recorded from drillers geograph record, and lball/bloodhound gas detector system.	Drill cutting samples at 20' intervals start at 2000'. Samples from 2000'-2420' were too fine for descriptions.
		2050				Geologist on location @ 2061', 10/14/2021	Mud-Co/Service Mud Inc. Check #6 @ 3650' 10/17/21 09:45am wt vis pH chl 9.1 58 9.5 10000 Filt LCM 12.0 2 Mud-Co/Service Mud Inc. Check #7 @ 3770' 10/18/21 10:00am wt vis pH chl 9.1 48 10.0 8500 Filt LCM 9.0 2 Mud-Co/Service Mud Inc. Check #8 @ 4100' 10/19/21 01:00pm wt vis pH chl 9.1 58 10.0 7000

Survey Record
Deg @ Ft
0.5 @ 165'
1.0 @ 3590'
1.25 @ 4110'





Oil Shows Indicator: Left Block 0-10 sample tray pcs w/show, Middle Block 10-20 tray pcs w/show, Right Block 20+ tray pcs w/show.

Added premix w/20 sx hulls @ 2400'.

LS: cm/lt-m bm/lt gry, micro-m xtal, some vry silty/arg, foss frags, min ppt-f in-xtal por, no odor, ns.

SH: lt-dk gry, some vry silty, slt carb, soft-firm, no odor, ns.

SS: lt gry, opaque, vf-f, pred qtz, sr-wr, some carb, some arg, friable, no odor, ns.

LS: wht/cm/lt gry/lt bm, vf-med xtal, some vry silty/arg, foss frags, min ppt-vf in-xtal por, no odor, ns.

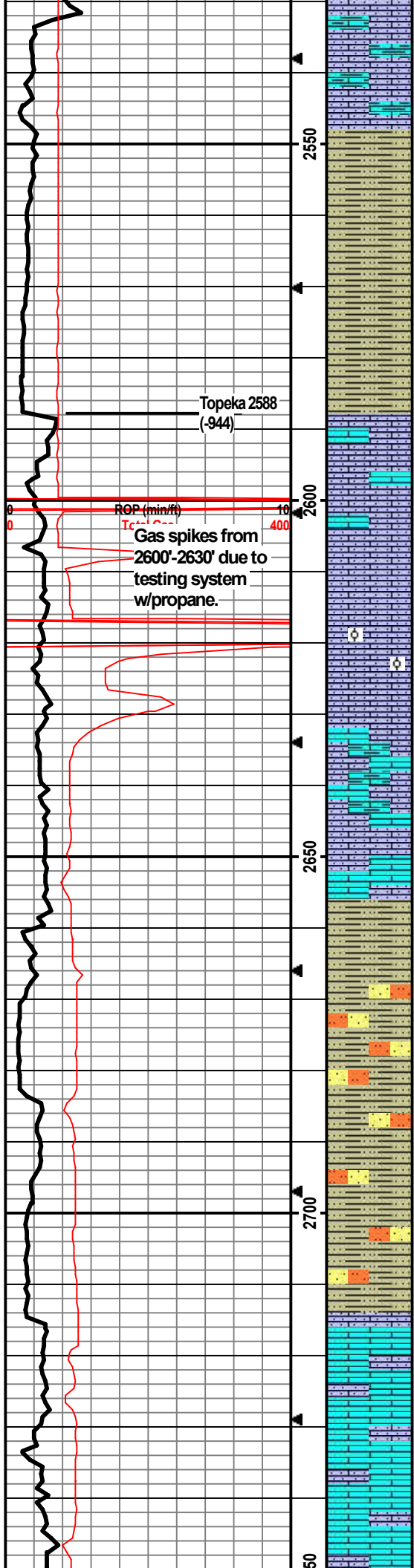
LS: cm/lt bm/lt gry, vf-med xtal, some vry silty/sndy, foss frags, no vis por, no odor, ns.

LS: cm/lt-dk bm/lt gry, micro-med xtal, some vry silty/arg, foss frags/dense ool, no vis por, no odor, ns.

SH: lt-dk gry, some vry silty, soft.

LS: lt gry/lt-dk bm, vf-med xtal, some vry silty/arg, foss frags, no vis por, no odor, ns.

LS: lt gry/lt-dk bm, vf-med xtal, some vry arg/silty/sndy, foss frags, min ppt-f in-xtal por, no odor, ns.



LS: cm/lt bm/lt gry, vf-med xtal, some vry silty/arg, grainy, foss frags, no vis por, no odor, ns.

LS: cm/lt dk bm/min gry, vf-m xtal, some vry arg/silty, grainy, foss frags, no vis por, no odor, ns.

SH: lt-med gry, some vry silty, soft.

SH: lt-m gry, some vry silty, soft-firm, no odor, ns.

Topeka 2588 (-944)

LS: cm/lt gry/lt-m bm, micro-med, some vry silty/arg, some foss frags, no vis por, no odor, ns.

ROP (min/ft)
Tc
Gas spikes from 2600'-2630' due to testing system w/propane.

LS: cm/lt-dk bm/gry-bm, micro-m xtal, some silty/arg, foss frags/dense ool, no vis por, no odor, ns.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, some silty/arg, foss frags, min ppt-f in-xtal por, no odor, ns.

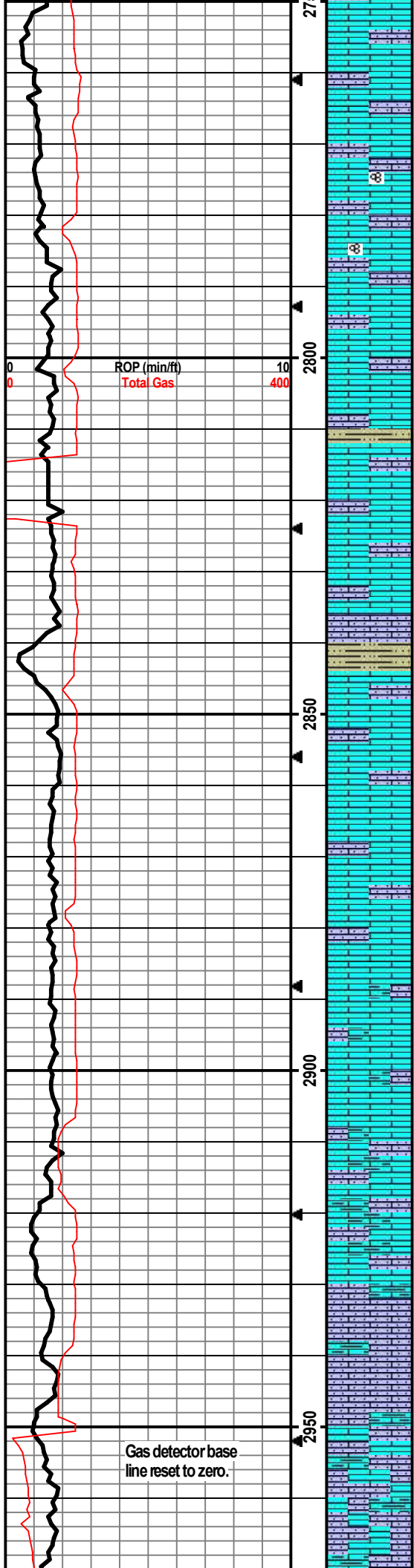
LS: cm/lt-m bm/lt gry, micro-med xtal, foss frags, some vry silty, no vis por, no odor, ns.

SH: lt-med gry/min maroon, some vry silty, soft-firm; some SS/Sltstn soft, lt gry, vf-f, some arg, friable, no odor, ns.

SH/SS/Sltstn as above.

LS: lt-m bm, vf-f, some silty, foss frags, no vis por, no odor, ns. SH/SS/Sltstn as above.

LS: cm/lt-med bm/lt gry, vf-med xtal, some silty, foss frags, no vis por, no odor, ns.



LS: cm/lt bm/lt gry, vf-m xtal, some silty, some chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt-med bm/lt gry, vf-med, some vry silty, foss frags/fusln, some vf-f in-xtal por, no odor, ns.

LS: cm/lt-m bm, vf-med xtal, some silty, some foss frags/grainy, some f in-xtal por, no odor, ns. SH: med-dk gry, soft-firm, some carb, fissile.

LS: cm/lt bm/lt gry, vf-med, some vry chalky, some silty, some foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm, vf-med, some chalky, some silty, min foss frags, no vis por, no odor, ns.

SH: lt-dk gry, some silty, slt carb, firm, fissile.

LS: cm/lt bm/lt gry, micro-m xtal, some silty, some foss frags, no vis por, no odor, ns.

LS: cm/lt gry/lt bm, vf-med xtal, some silty, some chalky, foss frags, no vis por, no odor, ns.

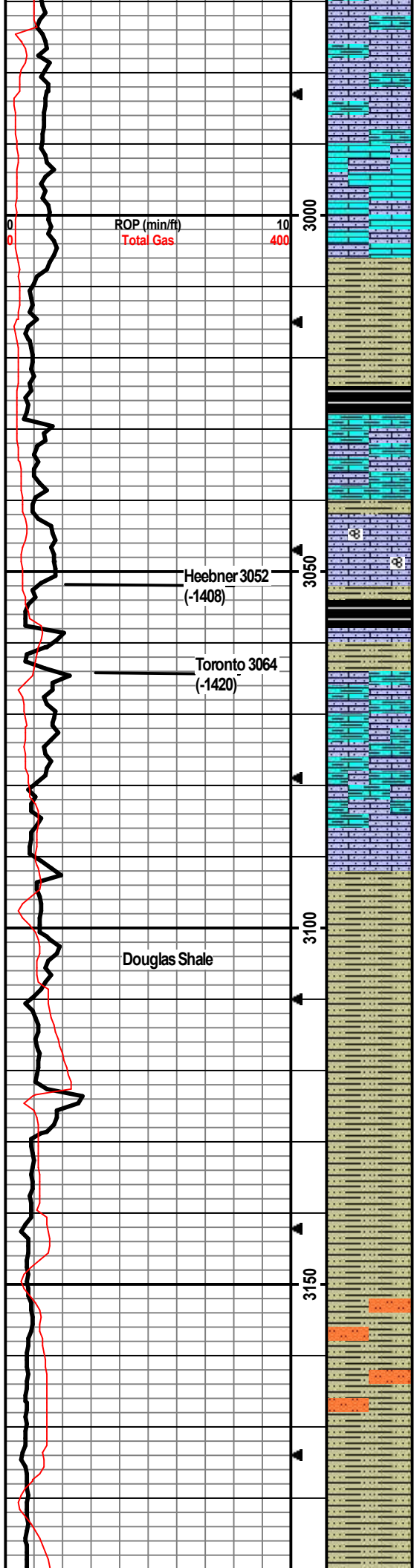
LS: cm/lt-m bm, vf-med xtal, some silty, some chalky, some arg, foss frags/grainy, some vf-f in-xal por, no odor, ns.

LS: cm/lt bm/lt-med gry, vf-med xtal, some silty, some arg, foss frags, no vis por, ns.

LS: cm/lt-med bm, vf-med, vry silty, some arg, foss frags, no vis por, no odor, ns.

LS: wht/cm/lt bm, micro-m xtal, some silty/arg, foss frags, no vis por, no odor, ns. Flood of SH: lt-dk gry/maroon/lt green-gry, silty, firm; min SS: lt gry, f-m, sr-wr, pred qtz, friable, no odor, ns.

Drilling mud displacement



LS: cm/lt-m bm/lt gry, vf-m xtal, silty/arg, foss frags, no vis por, no odor, ns.
Flood of SH as above.

LS: cm/lt-med bm, micro-med xtal, some silty, some vry chalky, min foss frags, no vis por, no odor, ns.

SH: med-dk gry, slit carb, some silty, soft-firm, fissile.

SH: as above. Smpl vry chalky.

SH: med-dk gry/blk, some carb, some silty, soft-firm, fissile.

LS: lt-m bm, vf-f xtal, vry chalky, vry silty/arg, easily crushed, no vis por, no odor, ns.

LS: lt-m bm, vf-f xtal, chalky, silty, foss frags/fusln, min ppt-f in-xtal por, no odor, ns.

SH: dk gry/blk, some silty, slit carb, firm.

SH: med gry-bm, vry silty, slit carb, firm.

LS: lt-m bm/gry mottling, vf-m xtal, some vry silty/arg, some chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt bm/lt-m gry-bm, vf-m xtal, vry silty/arg/chalky, foss frags, no vis por, no odor, ns.

SH: m-dk gry, slit silty, slit carb, firm, no odor. Smpl vry chalky.

SH: m-dk gry/dk bm-gry, silty, slit carb, firm, no odor.

SH: m-dk gry/blk/dk bm-gry, silty, slit carb, firm, fissile, no odor.

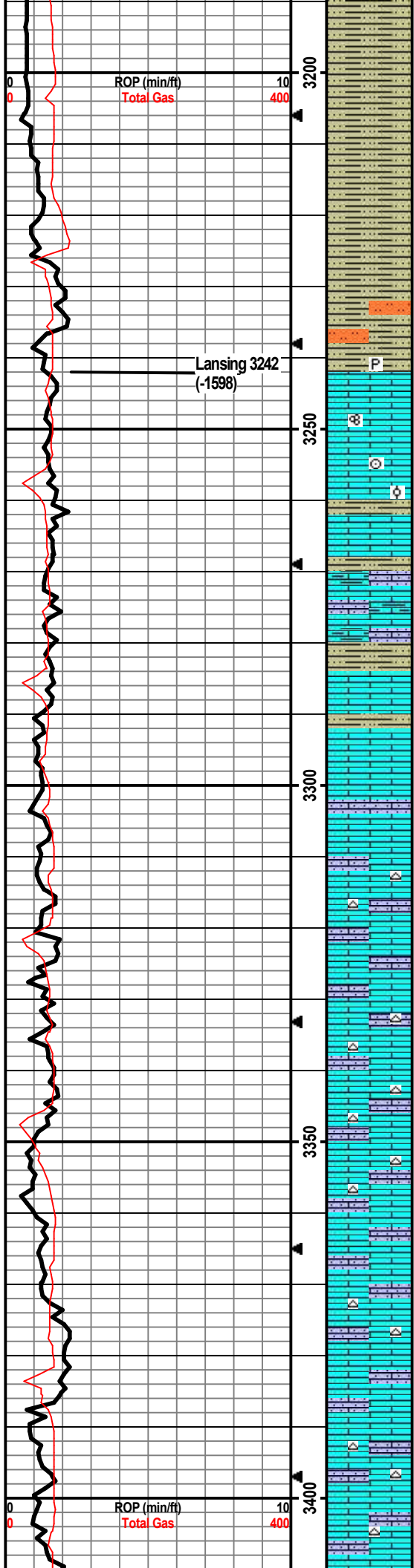
SH: med-dk gry, silty, some carb, soft-firm, fissile; min Sltstrn/SS: lt gry, arg, firm-hard, friable; no odor, ns.

SH: m-dk gry, some vry silty, slit carb, soft-firm, no odor.

performed at 2952'-2975' (800 bbls).

Drill cutting samples at 10' intervals start at 3000'.

Collected 20' samples starting at 3100'.



SH: m-dk gry/dk bm-gry, silty, micaous, silt carb, soft-firm, fissile, no odor.

SH: lt-dk gry, silt silty, silt carb, soft-firm, fissile, no odor.

SH: m-dk gry, silty, silt carb, soft-firm; min Sltstrn: lt gry, vf-f, hard/not friable, no odor.

SH: lt-dk gry/dk bm-gry, silty, silt carb, some pyritic, soft-firm, fissile.

LS: cm/lt-m bm/lt gry, vf-m xtal, some silty, some chalky, foss frags/crin/fusln/dense ool, some vf-f in-xtal por, no odor, ns.

LS: cm/lt-m bm/lt gry, vf-m xtal, some chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt bm/lt gry, vf-m xtal, some silty/arg, foss frags, no vis por, no odor, ns.

SH: lt-dk gry, some silty, silt carb, soft-firm.

LS: cm/lt-m bm/min lt gry, micro-med xtal, some chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt bm/lt gry, micro-med xtal, foss frags, no vis por, no odor, ns.

LS: lt-m bm, micro-med xtal, some chalky, some silty, foss frags, no vis por, no odor, ns.

LS: lt-m bm, micro-m xtal, some silty, min lt bm chert, foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm/lt gry/gry mottling, micro-m xtal, some silty, some chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some silty, some chalky, foss frags, some lt gry/bm chert, no vis por, no odor, ns.

LS: cm/lt-dk bm, micro-m xtal, some silty, some chalky, foss frags, min bm chert, no vis por, no odor, ns. (Smpl seemed to have silt crush odor, but no gas kick.)

LS: cm/lt-dk bm/lt-dk gry, micro-m xtal, some silty/sndy, some bm chert, foss frags, some chalky, some vf-f in-xtal por, no odor, ns.

LS: lt-m bm/lt-m gry, micro-m xtal, some silty, some chalky, foss frags, no vis por, no odor, ns.

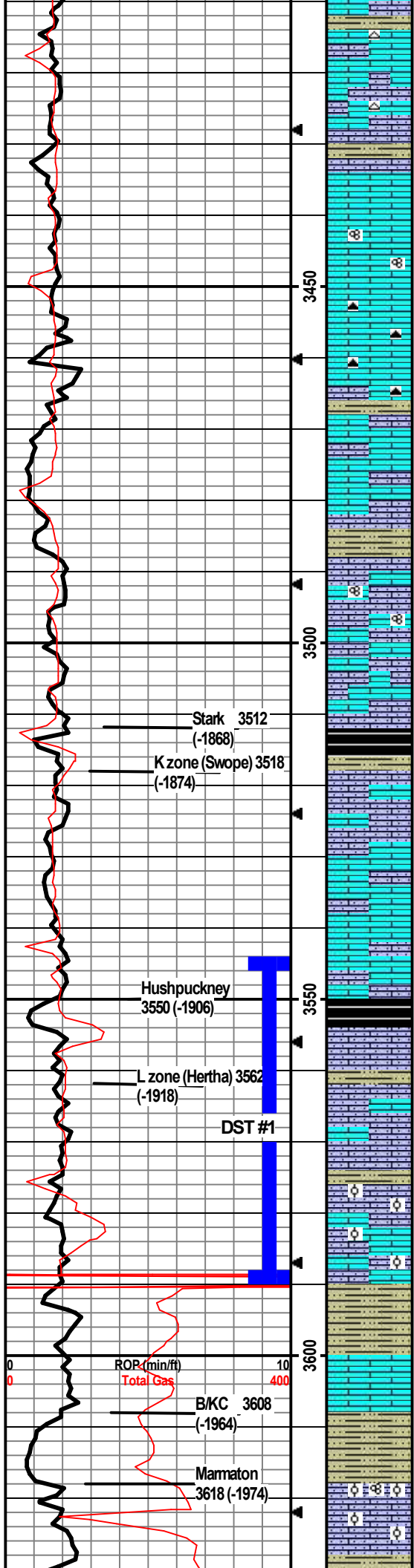
LS: cm/lt-m bm/lt gry, micro-m xtal, some silty, gry chert, min chalky, foss frags/some dense ool, min ppt-vf in-xtal por, no odor, ns.

LS: cm/lt-dk bm, micro-m xtal, some silty, some chalky, foss frags, no vis por, no odor, ns.

LS: lt bm/lt gry, micro-m xtal, some chalky, some silty, wht/gry chert, foss frags, some vf-f in-xtal por, no odor, ns.

LS: lt-m bm/gry-bm, micro-m xtal, some silty, some chalky, min bm chert, foss frags, no vis por, no odor, ns.

Resumed 10' samples at 3240'.



LS: lt-m bm, micro-fn xtal, some silty, some chalky, min bm chert, min foss frags, no vis por, no odor, ns.

SH: med gry/dk bm, some silty, slt carb, soft-firm, fissile.

LS: cm/lt bm/lt gry, micro-m xtal, min chalky, some foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm/gry-bm, micro-m xtal, some chalky, foss frags/fusln/grainy, no vis por, no odor, ns.

LS: cm/lt bm, micro-f xtal, some chalky, dk gry chert, min foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some chalky/silty, dk gry/dk bm chert, foss frags, no vis por, no odor, ns.

SH: m-dk gry/blk/dk bm, some vry silty, slt carb, soft-firm, fissile.

LS: cm/lt-m bm/lt gry/gry-bm, micro-m xtal xtal, some chalky, some silty, min foss frags, some frac por, no odor, ns.

SH: med-dk gry/dk bm, some vry silty, some carb, firm, fissile.

LS: cm/lt-m bm/gry, micro-med xtal, some chalky, foss frags/fusln, no vis por, no odor, ns.

LS: cm/lt-m bm/gry-bm, micro-m xtal, some sndy, some chalky, foss frags/some grainy, min ppt-f in-xtal por, no odor, ns.

SH: m-dk gry/blk, some silty, slt carb, firm, fissile.

LS: cm/lt-m bm, micro-m xtal, silty/sndy, foss frags, some vf-m in-xtal por, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some silty/sndy, foss frags, min ppt-m in-xtal por, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some chalky, some silty, foss frags, some ppt-m in-xtal por, no odor, ns.

LS: cm/lt bm, micro-f xtal, some chalky, some silty, min foss frags, no vis por, no odor, ns.

SH: dk gry/blk, silty, slt carb, firm, fissile.

LS: cm/lt bm, micro-f xtal, some chalky, some silty, min foss frags, no vis por, no odor, ns.

SH: lt gry/dk bm, silty, slt carb, soft-firm.

LS: cm/lt-m bm, micro-m xtal, some chalky, some silty, foss frags, no vis por, no odor, ns.

LS: wht/cm/lt bm/lt gry, micro-f xtal, silty, chalky, some foss frags/min ool, min crs oo-castic por, no odor, ns.

SH: lt-dk gry/min blk/dk brn, some vry silty, slt carb, soft-firm, fissile.

LS: cm/lt bm, micro-m xtal, some silty, some chalky, some wht chert, foss frags/ool, 14 pcs w/ppt-m in-xtal/in-ool por, dul yel fluor/cut, gd odor, gsfo.

SH: lt-dk gry, some vry silty, soft-firm. (Smpl had odor from above DST.)

Sample was not collected, assumed lithology from e-log.

SH: lt-dk gry/dk bm, some silty, slt carb, soft-firm.

LS: cm/lt-m brn/lt gry, micro-med xtal, some chalky, some silty/sndy, foss frags/fusln/ool, 3 ool pcs w/sfo w/ppt-vf in-xtal/in-ool por, dul yel fluor/cut, slt odor but poss from above, ssfo.

LS: cm/lt-m brn/lt gry, micro-m xtal, some silty/sndy, foss frags/dense ool, no vis por, no odor, ns.

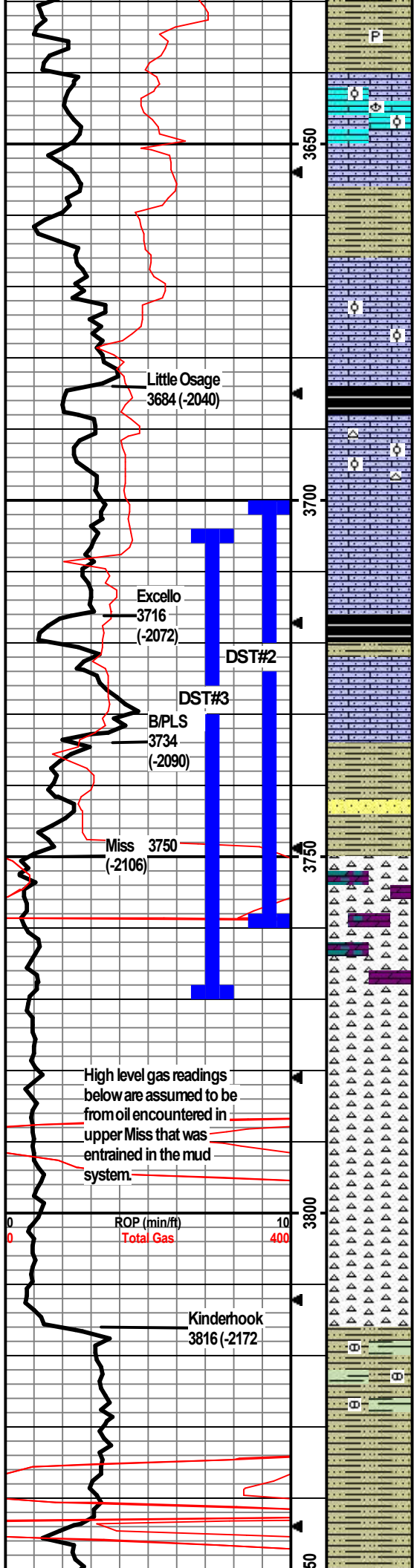
SH: lt-dk gry/blk/maroon/lt green-gry, some silty, slt carb, soft-firm, fissile.

Wiper Trip (57 Stds) conducted at 3590' prior to DST #1.

Pipe strap TOH for DST #1 @ 3590' was 1.01' short to the board.

DST#1 Lansing L-zone (Hertha) 3544'-3590' 45/60/45/90 1st) Blow built to 2"; no BB. 2nd) Blow built to BOB in 45secs; no BB. IFFP 27-29# ISIP 568# FFP 29-37# FSIP 532# HP 1681-1671# Recvd: 320' GIP; 20' GOCM (30%/G, 5%/O, 65%/M).

CFS @ 3590', Stop/20"/40".



SH: lt-dk gry/min dk bm, some silty, slit carb, slit pyritic, soft-firm.

LS: cm/lt-m bm, micro-m xtal, some silty, some chalky, foss frags/bracs/some dense ool, no vis por, no odor, ns.

CFS @ 3650', Stop/30"/60".

LS: cm/lt-m bm/lt-m gry-bm/min lt gry/lt green-gry, micro-m xtal, silty/sndy, chalky, min foss frags, no vis por, no odor, ns.

SH: lt-m gry/lt bm/min maroon, some silty, slit carb, soft-firm.

LS: wht/cm/lt-m bm/lt gry, micro-m xtal, silty/sndy, chalky, min foss frags/fn dense ool, min ppt-f in-xtal por, no odor, ns.

LS: wht/cm/lt bm/lt gry, micro-m xtal, silty, some chalky, min foss frags/dense ool, no vis por, no odor, ns.

DST#2 Upper MISS 3700'-3760'

30/45/60/90
1st) Strong blow built to BOB in 30sec, GTS in 12min, gauged gas built to 907"; weak BB built to 1.1".
2nd) Strong blow to BOB, GTS immed, gauged gas built to 391"; no BB.
IFP 390-249#
ISIP 1001#
FFP 175-97#
FSIP 958#
HP 1822-1724#
Recvd: GTS; 261 Total fluid, 58' GOCM (40%G, 45%O, 15%M), 58' GOCM (35%G, 30%O, 35%M), 65' GOCM (58%G, 12%O, 30%M), 65' GOCM (30%G, 5%O, 65%M), 15' GOCM (2%G, 1%O, 97%M).

SH: lt-dk gry/blk, some silty, slit carb, soft-firm.

LS: cm/lt gry, micro-fn xtal, some chalky, silty/sndy, lt gry chert, min foss frags/grainy/fn dense ool, no vis por, no odor, ns.

LS: cm/lt-m bm/lt gry, micro-f xtal, some chalky, silty, no vis por, no odor, ns.

LS: cm/lt gry/gry-bm, vf-f xtal, vry silty, no vis por, no odor, ns.

SH: lt-dk gry/min blk, some silty, slit carb, soft-firm.

LS: cm/lt bm, vf-f xtal, vry silty, no vis por, no odor, ns.

SH: lt-dk gry, some vry silty, slit carb, firm, fissile. Min SS: gry-green, vf-f, glauc, dense, no vis por, no odor, ns.

LS: lt-m bm/lt-m bm-gry, vf-f xtal, silty, no vis por, no odor, ns.

SH: lt-dk gry/blk/green-gry, some silty, slit carb, firm, fissile. Min SS: gry-green, vf-f, glauc, dense, no vis por, no odor, ns.

Chert: wht/cm/lt bm/orange, micro-vf, grainy, some tripolitic, some dolomitic, ppt-m in-xtal por, 14 pcs in 30min/21 pcs in 60min smpls w/sfo w/gas bubbles, dul yel fluor/cut, ppt-m in-xtal por, slit odor, gsfo.

CFS @ 3760', Stop/30"/60".

Chert as above, 36 pcs in 30min w/sfo w/gas bubbles, dul yel fluor/cut, ppt-f in-xtal por, gd odor, gsfo. 60min smpl is 10-15% of tray has show, some w/blk tar oil.

CFS @ 3770', Stop/30"/60".

Chert: wht/lt yel/lt gry, micro-vf, some tripolitic, 13 pcs w/sfo/gas, ppt-f in-xtal por, dul yel fluor, slit odor, sfo w/some blk tar.

DST#3 MISS 3704'-3770'

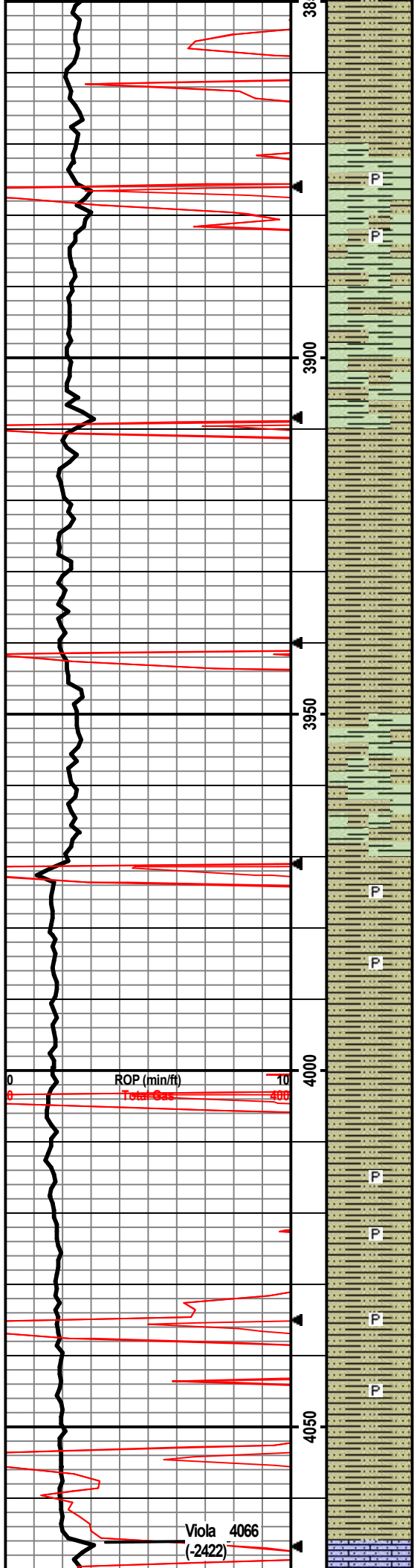
45/60/60/120
1st) Strong blow built to BOB in 45sec, GTS in 18min, gauged gas built to 800"+; Fair BB built to 8.48".
2nd) Strong blow to BOB, GTS immed, gauged gas built to 800"+; Fair-strong BB built to 10.92".
IFP 220-268#
ISIP 960#
FFP 155-152#
FSIP 955#
HP 1759-1729#
Recvd: GTS; 364 Total fluid, 58' GOCM (10%G, 7%O, 83%M), 58' GOCM (15%G, 30%O, 55%M), 65' GOCM (20%G, 5%O, 75%M), 65' GOCM (30%G, 5%O, 65%M), 118' GO spected M(5%G, 95%M).

Chert: same as above, 10 pcs w/sfo, ppt-crs in-xtal por, slit odor.

Chert: wht/cm/lt yel, micro xtal, min tripolitic w/ppt-vf por, no odor, ns

SH: lt-dk gry/dk bm/lt green-gry/lt maroon, slit silty, slit carb, LS nod, firm, no odor, ns.

SH: lt-dk gry/lt green-gry/lt maroon, some vry silty, slit carb, soft-firm, no odor, ns.



SH: lt-dk gry/blk/lt green-gry/maroon, silty, slt carb, firm, no odor, ns.

SH: lt-dk gry/min lt-green-gry/min maroon, slt silty, slt carb, min pyritic, soft-firm.

SH: lt-dk gry, slt silty, slt carb, soft-firm, no odor, ns.

SH: lt-m gry/bm, silty, slt carb, soft-firm, no odor, ns.

SH: lt-m gry/min maroon, silty, slt carb, soft-firm, no odor, ns.

SH: lt-m gry, some silty, slt carb, soft-firm, no odor, ns.

SH: lt-m gry, silty, slt carb, slt pyritic, soft-firm, no odor, ns.

SH: lt-m gry/lt-m bm-gry, silty, slt carb, soft-firm, no odor, ns.

SH: same as above, slt pyritic, no odor, ns.

SH: lt-dk gry/lt-m bm-gry, silty, slt carb, slt pyritic, soft-firm, no odor, ns.

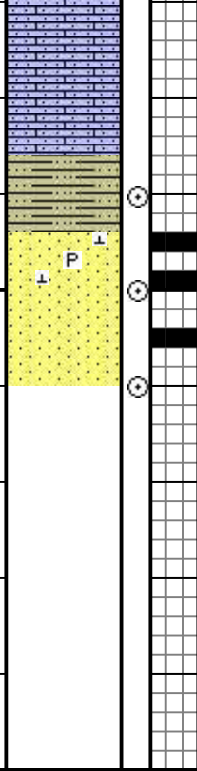
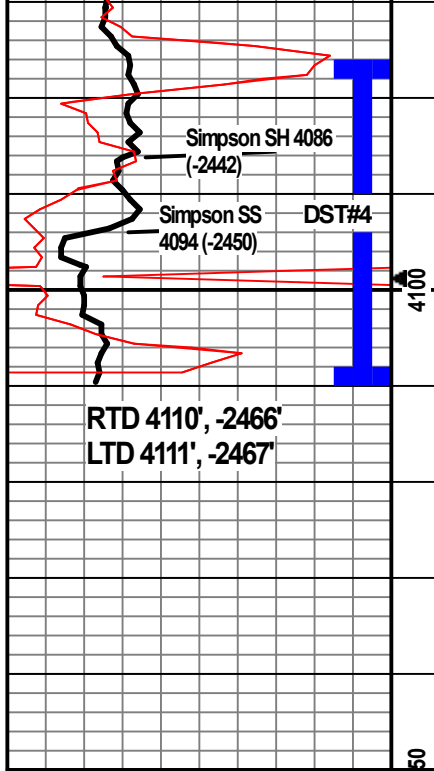
SH: lt-m gry/lt-m bm-gry, silty, slt carb, soft-firm, no odor, ns.

LS: wht/cmlt-m bm micro-m xtal some vry sndy vry chalky no vis nor no

Collected 20' samples starting at 3820'.

DST#4 Simpson
4076'-4110'
 30/30/30/30
 1st) Weak blow built to 1"; no BB.
 2nd) Weak blow built to 1/4"; no BB.
 IFP 39-26#
 ISIP 1016#
 FFP 37-26#
 FSIP 1005#
 HP 2023-2009#
 Recvd: 25' GIP; 5' GO
 Spected M (2%G, 98%M).

Resumed 10'



odor, ns.

SH: m-dk gry/dk brn, some silty, some pyritic, soft-firm.
 SS: gry/green-gry/dk brn, vff, sr-wr, glauc, carb, arg, dense, some friable, no vis por, no odor, ns.

30min: SS: lt brn-gry, f-m, sr-wr, dense, friable, blk tar oil, yel fluor/cut, >75% of SS clusters w/show, gd odor, sfo.
 60min: SS: lt gry/opaque, f-m, sr-wr, some pyritic, friable, free oil and blk tar, gas bubbles, yel fluor/cut, >90% of SS cluster w/show, stg odor, sfo.

30&60min: SS: gry-brn, f-m, sr-wr, dense, friable, blk tar oil, dul yel fluor, weak cut, >95% of SS clusters w/blk tar oil, gd odor.

TD @4110'.

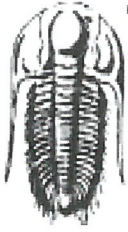
Resumed to samples at 4080'.

CFS @4090', Stop/30"/60".

CFS @4100', Stop/30"/60".

CFS @4110', Stop/30"/60".

Conducted short trip (12 Stds), then cir 1.5 hrs total to condition hole prior to DST #4. After DST #4, TIH w/bit to TD and CTCH 1.5 hrs, then TOH for logging.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Comp.
 1700 N Waterfront PKWY BLDG 600
 Wichita, Ks. 67206
 ATTN: Kent Matson

22-24s-8w Reno Co Ks
Sorenson 1-22
 Job Ticket: 67589 **DST#: 1**
 Test Start: 2021.10.16 @ 20:34:20

GENERAL INFORMATION:

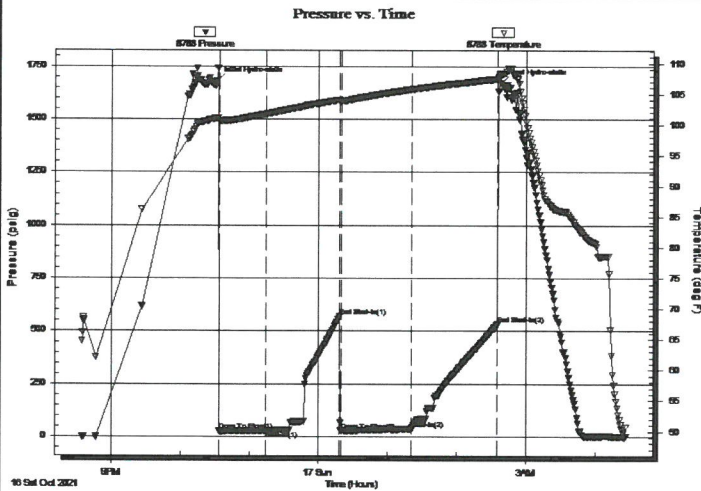
Formation: **Lansing "L" (Hertha)**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:33:50
 Time Test Ended: 04:26:50
 Interval: **3544.00 ft (KB) To 3590.00 ft (KB) (TVD)**
 Total Depth: 3590.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1644.00 ft (KB)
 1639.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8788

Inside

Press@RunDepth: 36.93 psig @ 3545.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.16 End Date: 2021.10.17 Last Calib.: 2021.10.17
 Start Time: 20:34:25 End Time: 04:26:49 Time On Btm: 2021.10.16 @ 22:31:20
 Time Off Btm: 2021.10.17 @ 02:38:20

TEST COMMENT: IF: Weak Blow . Built to 2". (45)
 IS: No Blow . (60)
 FF: Strong Blow . B.O.B. in 45 secs. Built to 27.75". (45)
 FS: No Blow . (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.92	101.04	Initial Hydro-static
3	26.60	100.61	Open To Flow (1)
43	28.56	101.74	Shut-In(1)
108	567.98	104.05	End Shut-In(1)
109	28.94	103.86	Open To Flow (2)
170	36.93	105.77	Shut-In(2)
244	531.92	107.46	End Shut-In(2)
247	1671.40	108.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GVSOCM 30%g 5%o 65%m	0.15
0.00	320' GIP 100%g	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Comp.
1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206
ATTN: Kent Matson

22-24s-8w Reno Co Ks
Sorenson 1-22
Job Ticket: 67589 DST#: 1
Test Start: 2021.10.16 @ 20:34:20

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	8000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GVSOCM 30%g 5%o 65%m	0.152
0.00	320' GIP 100%g	0.000

Total Length: 20.00 ft Total Volume: 0.152 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

Recovery Comments: 320 FT of Gas in Pipe.

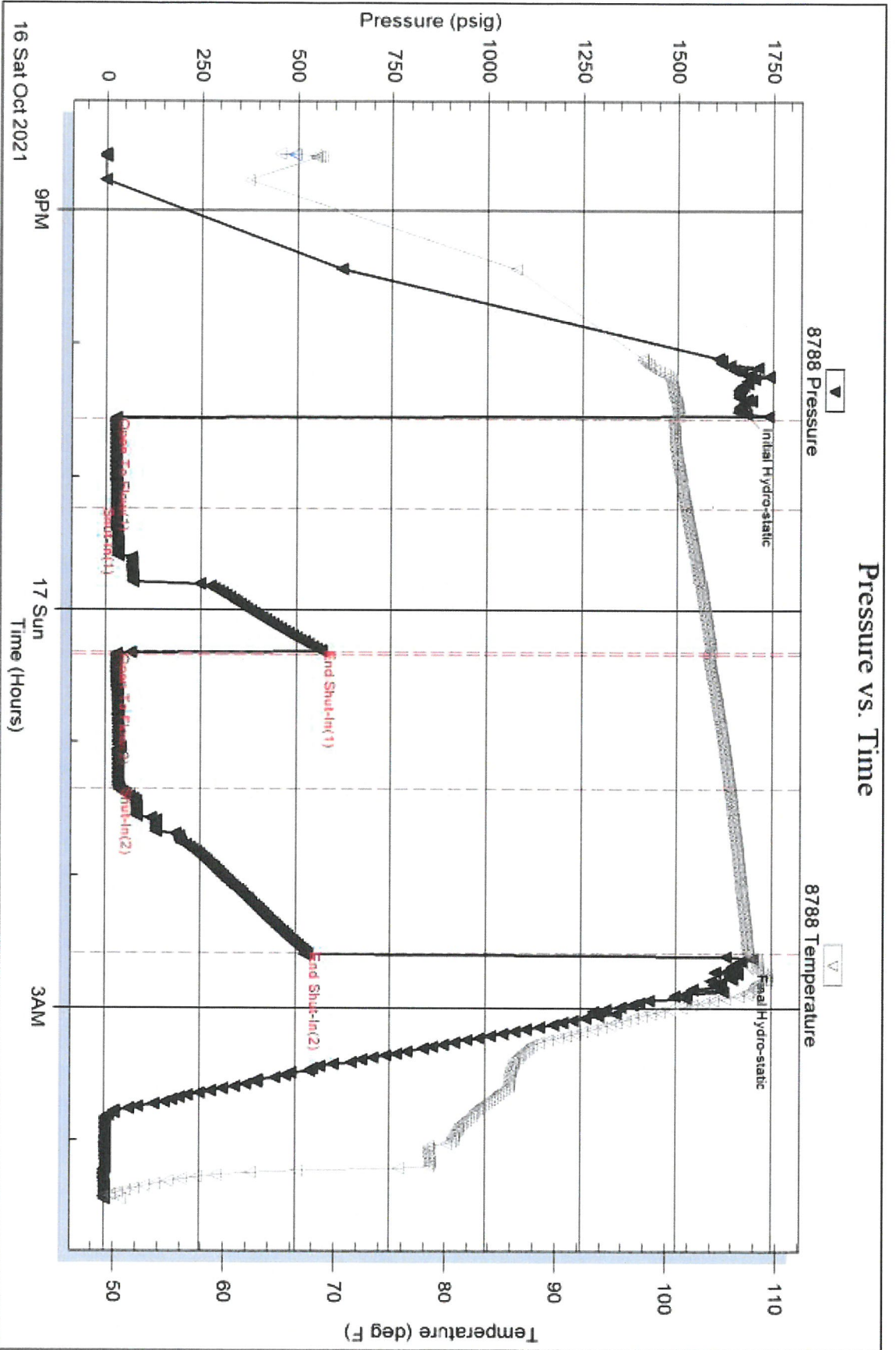
Serial #: 8788

Inside

Grand Mesa Operating Comp.

Sorenson 1-22

DST Test Number: 1

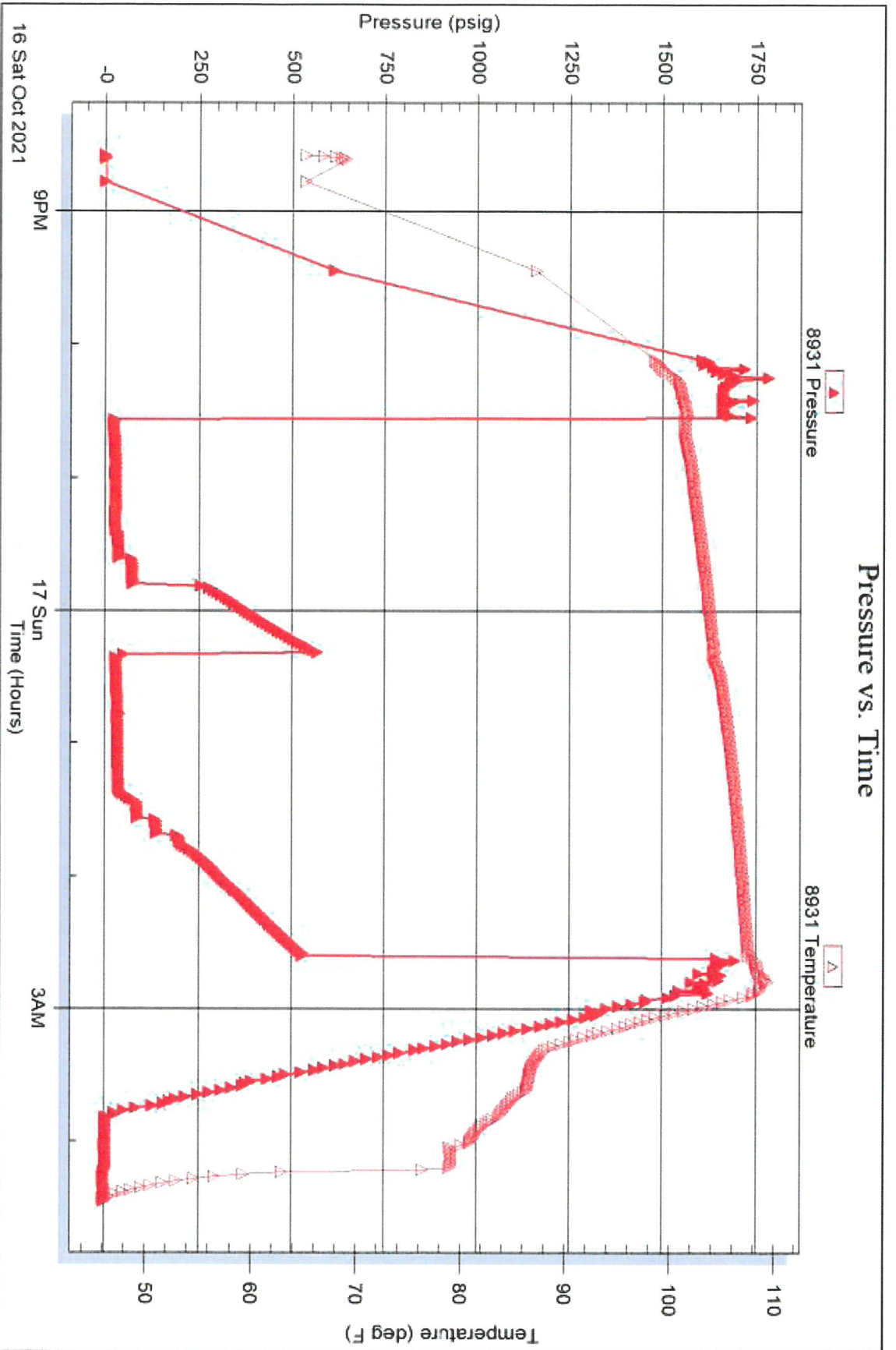


Serial #: 8931

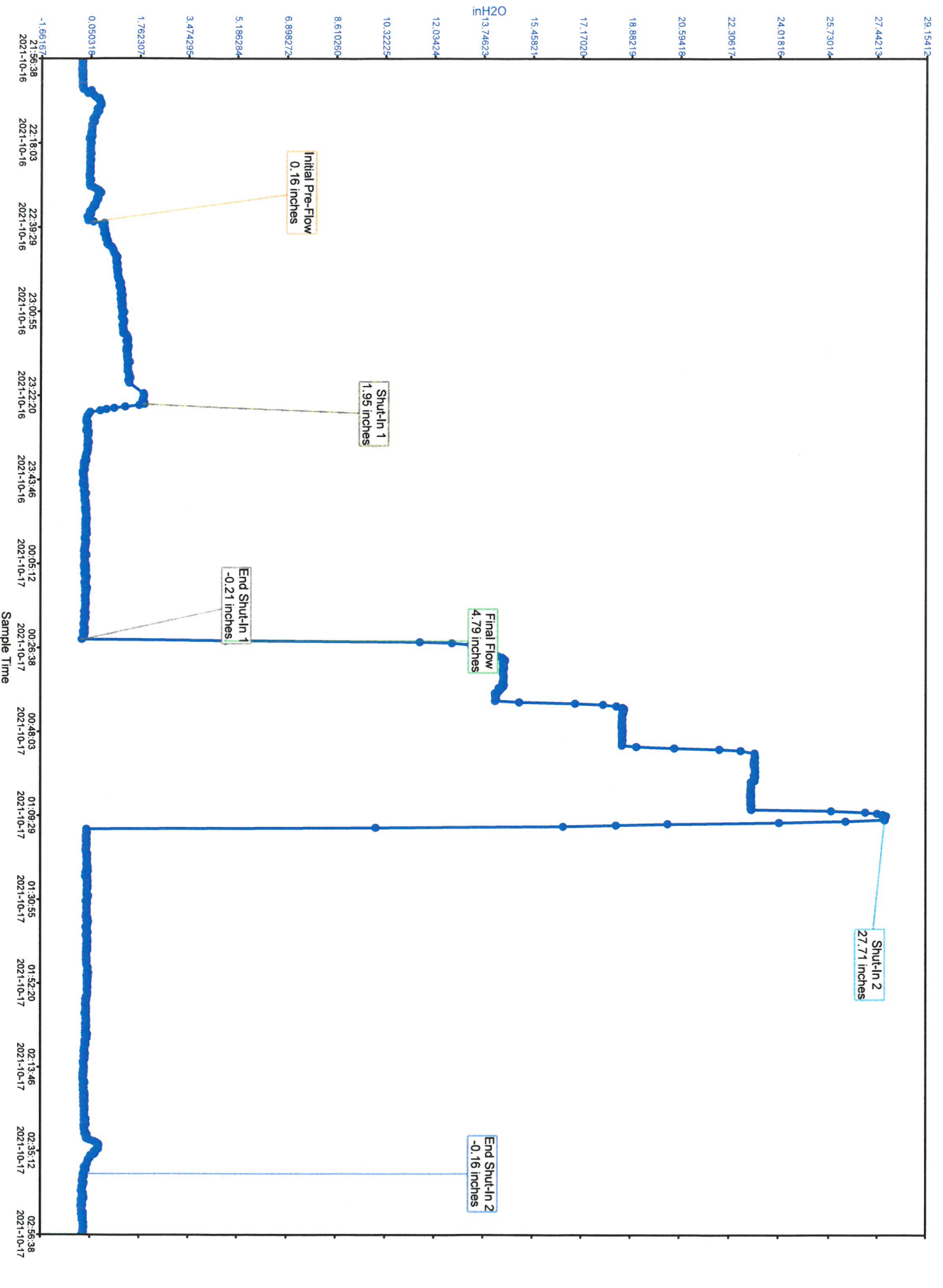
Outside Grand Mesa Operating Comp.

Sorenson 1-22

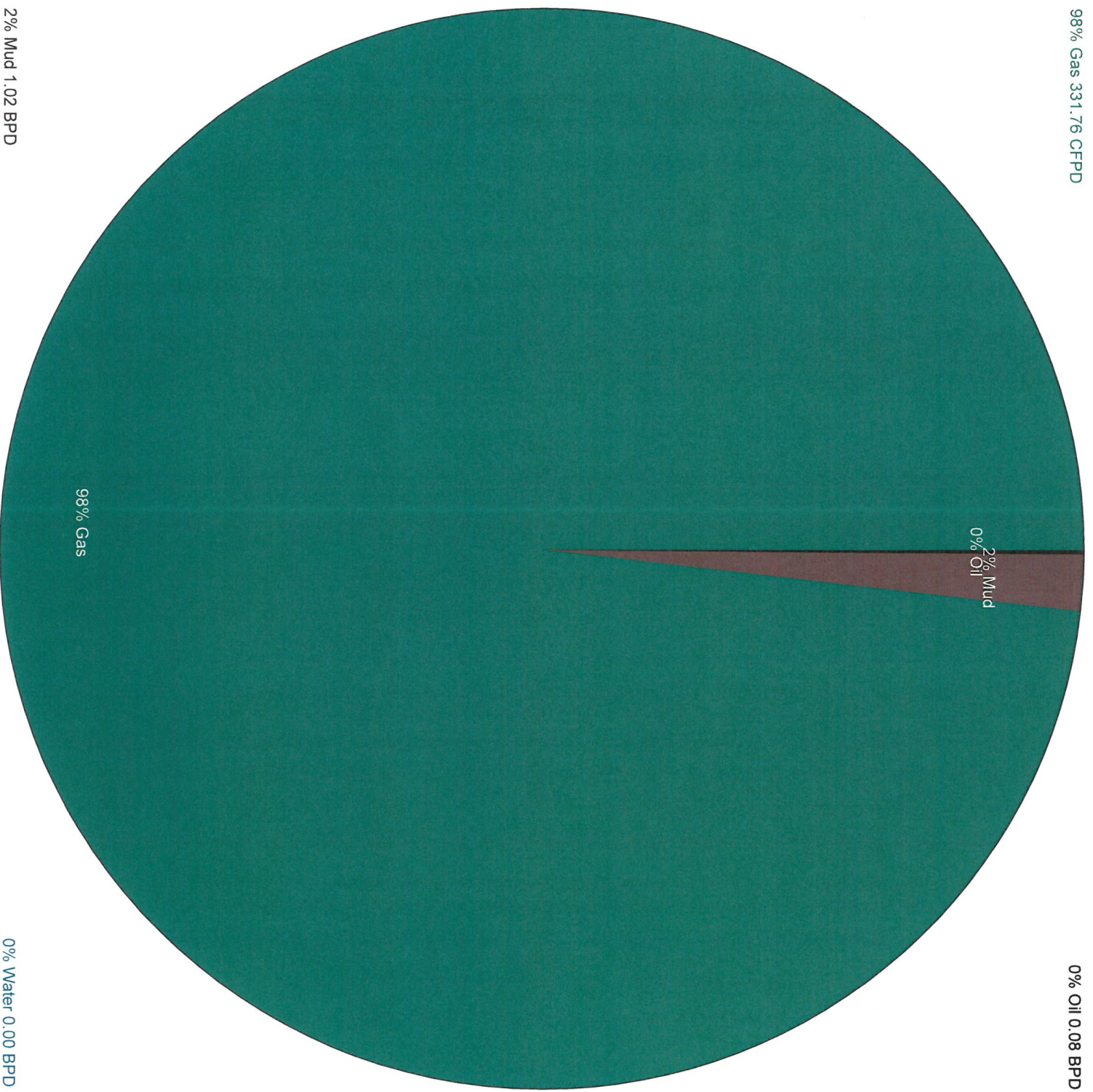
DST Test Number: 1



Grand Mesa Oil Company - Sorenson 1-22 - DST 1



Calculated Recovery Analysis - Grand Mesa Oil Company - Sorenson 1-22 - DST 1



98% Gas 331.76 CFPD

0% Oil 0.08 BPD

2% Mud

98% Gas

2% Mud 1.02 BPD

0% Water 0.00 BPD



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Comp.
1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206
ATTN: Kent Matson

22-24s-8w Reno Co Ks
Sorenson 1-22
Job Ticket: 67590 **DST#: 2**
Test Start: 2021.10.17 @ 19:12:32

GENERAL INFORMATION:

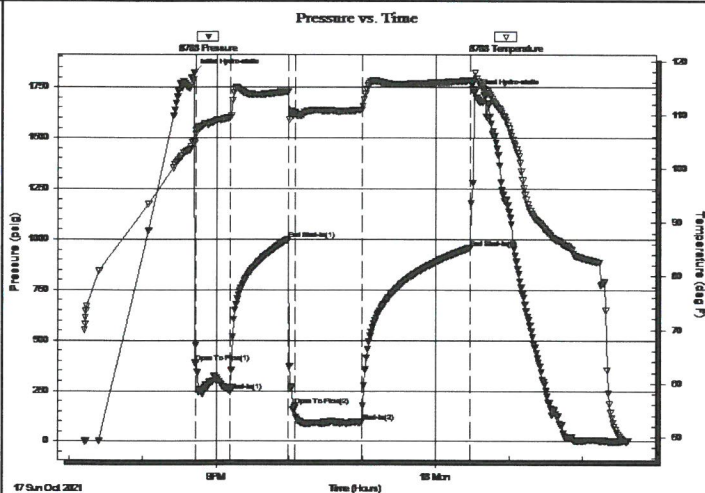
Formation: **Upper Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:43:02
Time Test Ended: 02:37:32
Interval: **3700.00 ft (KB) To 3760.00 ft (KB) (TVD)**
Total Depth: 3760.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1644.00 ft (KB)
1639.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8788

Inside

Press@RunDepth: 97.10 psig @ 3701.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.10.17 End Date: 2021.10.18 Last Calib.: 2021.10.18
Start Time: 19:12:37 End Time: 02:37:31 Time On Btm: 2021.10.17 @ 20:41:32
Time Off Btm: 2021.10.18 @ 00:31:02

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. G.T.S. in 12 mins. Gauged Gas. Built to 907"+. (30)
IS: Weak Blow . Built to 1.10". (45)
FF: Strong Blow . B.O.B. & G.T.S., immediate. Gauged Gas. Built to 390.62". (60)
FS: No Blow . (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.43	105.16	Initial Hydro-static
2	389.58	107.23	Open To Flow (1)
30	248.63	109.45	Shut-In(1)
78	1000.82	114.33	End Shut-In(1)
83	175.42	110.43	Open To Flow (2)
138	97.10	110.92	Shut-In(2)
227	958.15	116.42	End Shut-In(2)
230	1723.75	116.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GHOCM 40%g 45%o 15%m	0.44
58.00	GHOCM 35%g 30%o 35%m	0.45
65.00	GHOCM 58%g 12%o 30%m	0.91
65.00	GVSOCM 30%g 5%o 65%m	0.91
15.00	GVSOCM 2%g 1%o 97%m	0.21

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	191.37	77.02
Last Gas Rate	0.50	2.24	112.25
Max. Gas Rate	0.38	194.84	766.49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Comp.

22-24s-8w Reno Co Ks

1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206

Sorenson 1-22

Job Ticket: 67590

DST#: 2

ATTN: Kent Matson

Test Start: 2021.10.17 @ 19:12:32

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 11.99 in³
Resistivity: ohm.m
Salinity: 10000.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 10000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	GHOCM 40%g 45%o 15%m	0.442
58.00	GHOCM 35%g 30%o 35%m	0.448
65.00	GHOCM 58%g 12%o 30%m	0.912
65.00	GVSOCM 30%g 5%o 65%m	0.912
15.00	GVSOCM 2%g 1%o 97%m	0.210

Total Length: 261.00 ft Total Volume: 2.924 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: P-27 Matt

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas to Surface.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Grand Mesa Operating Comp.

22-24s-8w Reno Co Ks

1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206

Sorenson 1-22

Job Ticket: 67590

DST#: 2

ATTN: Kent Matson

Test Start: 2021.10.17 @ 19:12:32

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

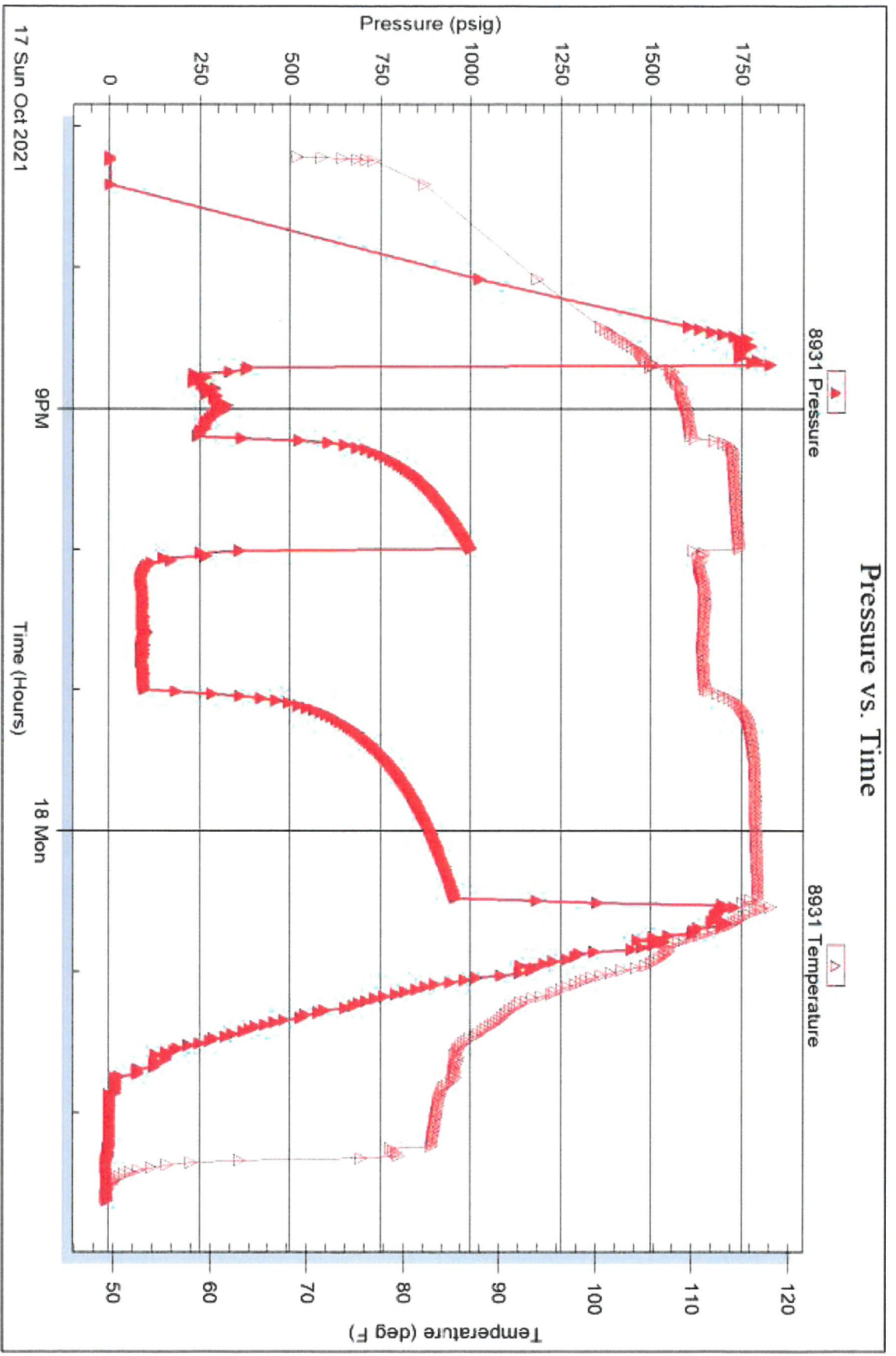
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	12	0.13	191.37	77.02
1	20	0.38	194.84	766.49
1	30	0.38	148.09	595.24
2	10	0.75	4.36	293.03
2	20	0.50	12.59	182.07
2	30	0.50	6.94	143.95
2	40	0.50	3.57	121.22
2	50	0.50	2.87	116.50
2	60	0.50	2.24	112.25

Serial #: 8931

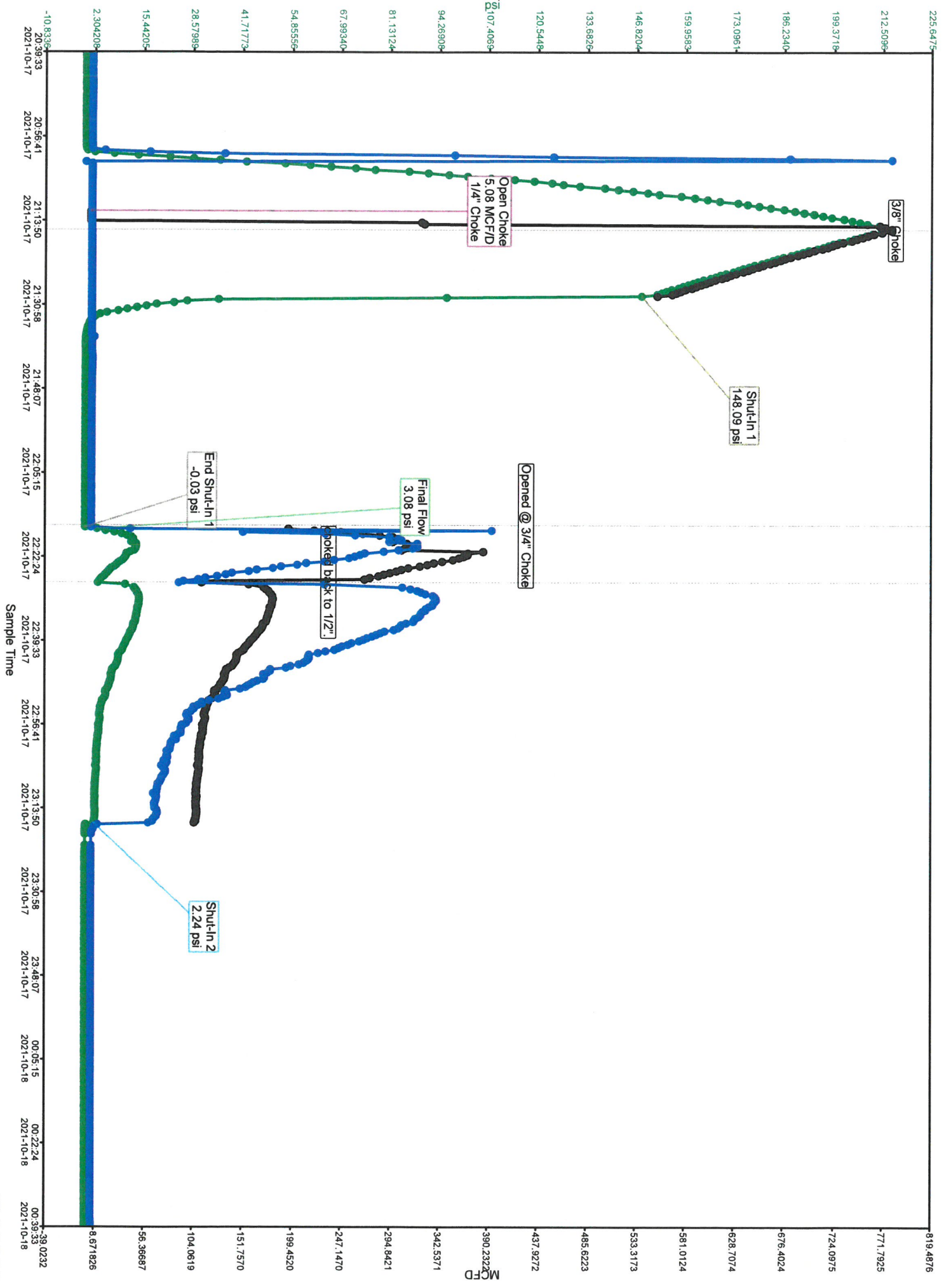
Outside Grand Mesa Operating Comp.

Sorenson 1-22

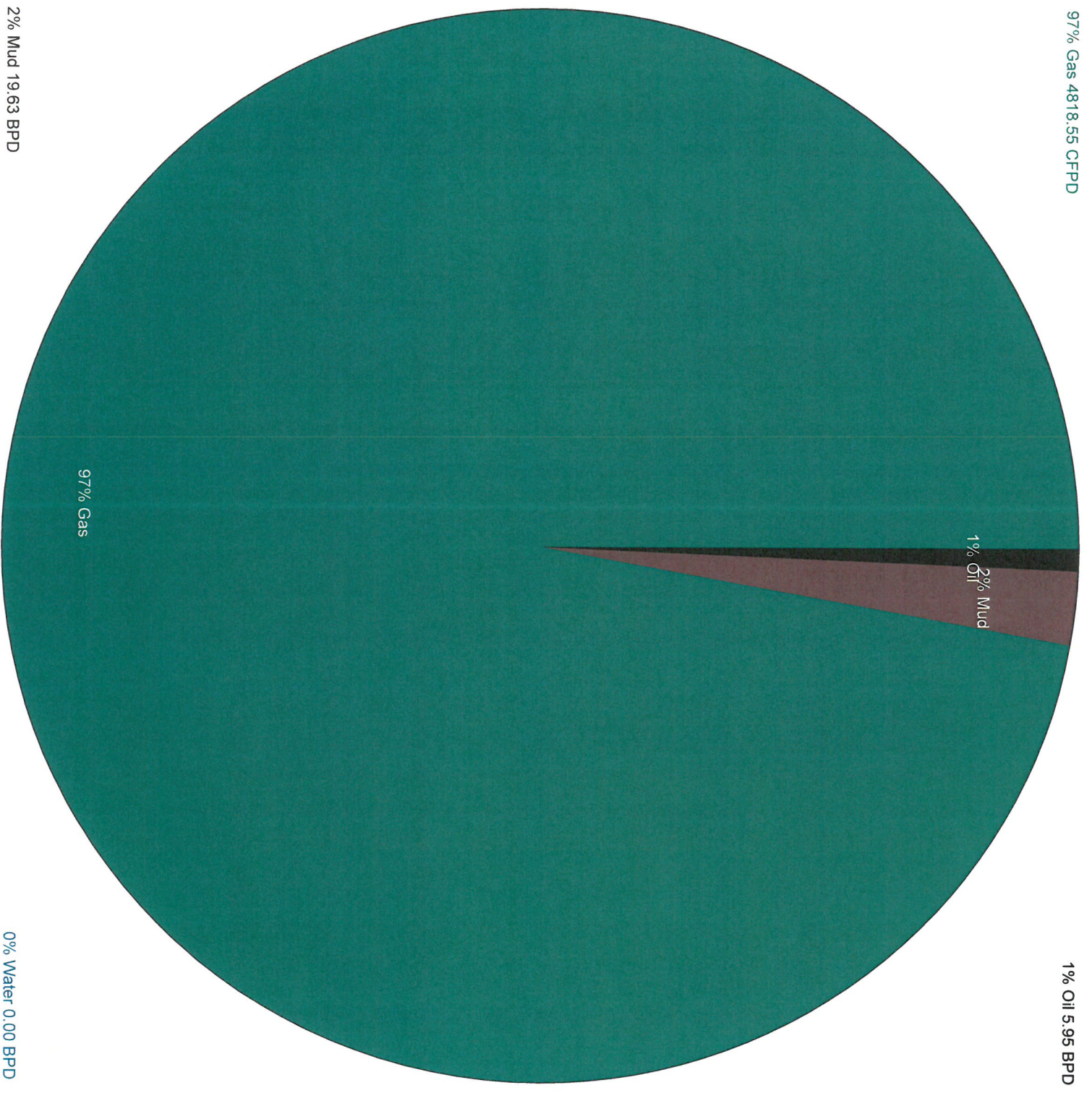
DST Test Number: 2

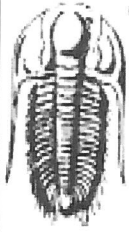


Grand Mesa Oil Company - Sorenson 1-22 - DST 2



Calculated Recovery Analysis - Grand Mesa Oil Company - Sorenson 1-22 - DST 2





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating Comp.

22-24s-8w Reno Co Ks

1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206

Sorenson 1-22

Job Ticket: 67591

DST#: 3

ATTN: Kent Matson

Test Start: 2021.10.18 @ 08:37:39

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:10:54

Time Test Ended: 18:07:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **3704.00 ft (KB) To 3770.00 ft (KB) (TVD)**

Total Depth: 3770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1644.00 ft (KB)

1639.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8788

Inside

Press@RunDepth: 152.48 psig @ 3705.00 ft (KB)

Start Date: 2021.10.18

End Date:

2021.10.18

Capacity: 8000.00 psig

Last Calib.: 2021.10.18

Start Time: 08:37:44

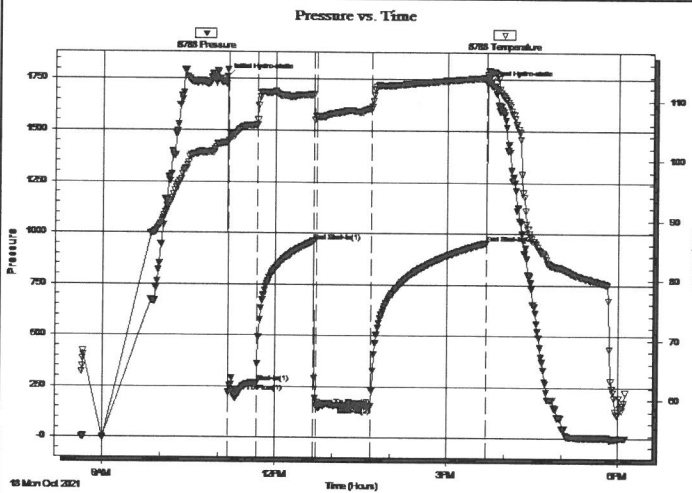
End Time:

18:07:24

Time On Btm: 2021.10.18 @ 11:08:39

Time Off Btm: 2021.10.18 @ 15:42:09

TEST COMMENT: IF: Strong Blow . B.O.B. in 45 secs. G.T.S. in 18 mins. Built over 800"+. Gauged Gas. (30)
IS: Fair Blow . Built to 8.48". (60)
FF: Strong Blow . B.O.B. & G.T.S. Immediate. Built over 800"+. Gauged Gas. (60)
FSI: Fair-Strong Blow . Built to 10.92". (120)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.43	102.90	Initial Hydro-static
3	219.82	103.21	Open To Flow (1)
32	268.16	105.85	Shut-In(1)
92	960.35	110.97	End Shut-In(1)
95	155.22	107.21	Open To Flow (2)
152	152.48	108.70	Shut-In(2)
273	954.93	113.83	End Shut-In(2)
274	1728.58	114.42	Final Hydro-static

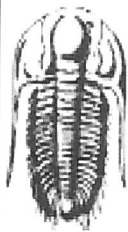
Recovery

Length (ft)	Description	Volume (bbl)
58.00	GHOCM 10%g 7%o 83% m	0.44
58.00	GHOCM 15%g 30%o 55% m	0.45
65.00	GVSHOCM 20%g 5%o 75% m	0.91
65.00	GVSOCM 30%g 5%o 65% m	0.91
118.00	GO spec M 5%g 95% m	1.66

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	144.48	252.05
Last Gas Rate	0.25	11.15	40.53
Max. Gas Rate	0.25	147.35	256.60



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Comp.
1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206
ATTN: Kent Matson

22-24s-8w Reno Co Ks
Sorenson 1-22
Job Ticket: 67591 **DST#: 3**
Test Start: 2021.10.18 @ 08:37:39

GENERAL INFORMATION:

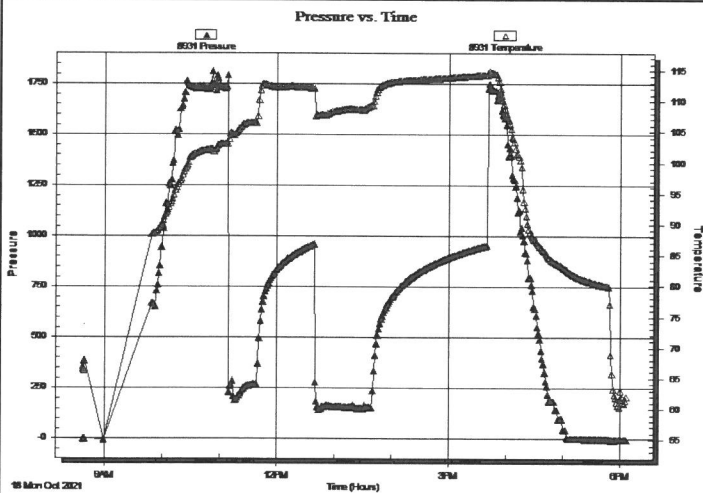
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:10:54
Time Test Ended: 18:07:24
Interval: **3704.00 ft (KB) To 3770.00 ft (KB) (TVD)**
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68
Reference Elevations: 1644.00 ft (KB)
1639.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8931

Outside

Press@RunDepth: psig @ 3705.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.10.18 End Date: 2021.10.18 Last Calib.: 2021.10.18
Start Time: 08:36:50 End Time: 18:06:30 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 45 secs. G.T.S. in 18 mins. Built over 800'+. Gauged Gas. (30)
IS: Fair Blow . Built to 8.48". (60)
FF: Strong Blow . B.O.B. & G.T.S. Immediate. Built over 800'+. Gauged Gas. (60)
FSI: Fair-Strong Blow . Built to 10.92". (120)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GHOCM 10%g 7%o 83%m	0.44
58.00	GHOCM 15%g 30%o 55%m	0.45
65.00	GVSHOCM 20%g 5%o 75%m	0.91
65.00	GVSOCM 30%g 5%o 65%m	0.91
118.00	GO spec M 5%g 95%m	1.66

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	144.48	252.05
Last Gas Rate	0.25	11.15	40.53
Max. Gas Rate	0.25	147.35	256.60



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Comp.
1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206
ATTN: Kent Matson

22-24s-8w Reno Co Ks
Sorenson 1-22
Job Ticket: 67591 **DST#: 3**
Test Start: 2021.10.18 @ 08:37:39

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	8500 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	GHOCM 10%g 7%o 83%m	0.442
58.00	GHOCM 15%g 30%o 55%m	0.448
65.00	GVSHOCM 20%g 5%o 75%m	0.912
65.00	GVSOCM 30%g 5%o 65%m	0.912
118.00	GO spec M 5%g 95%m	1.655

Total Length: 364.00 ft Total Volume: 4.369 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gas to Surface.

Slid 17 FT

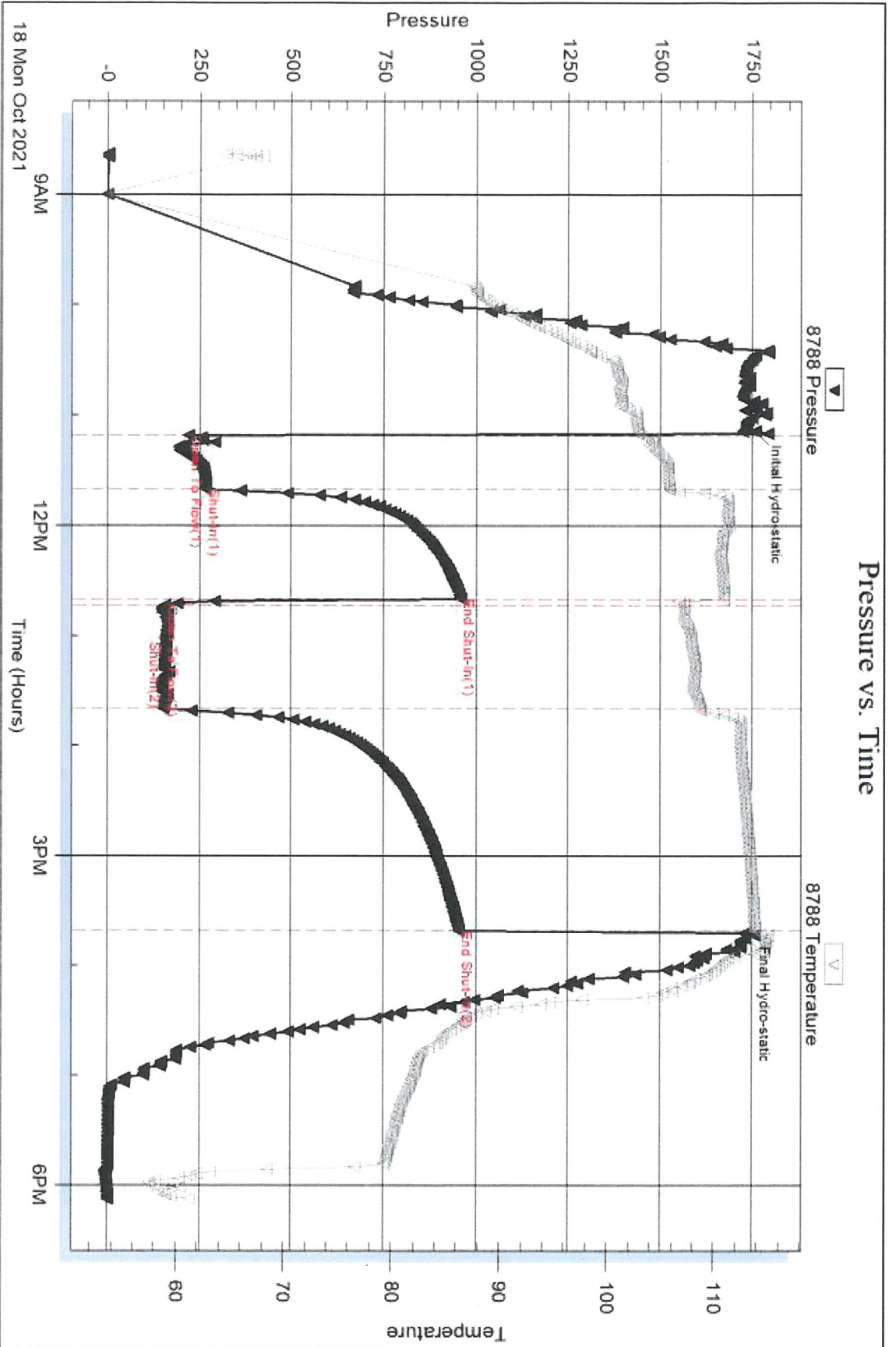
Serial #: 8788

Inside

Grand Mesa Operating Comp.

Sorenson 1-22

DST Test Number: 3

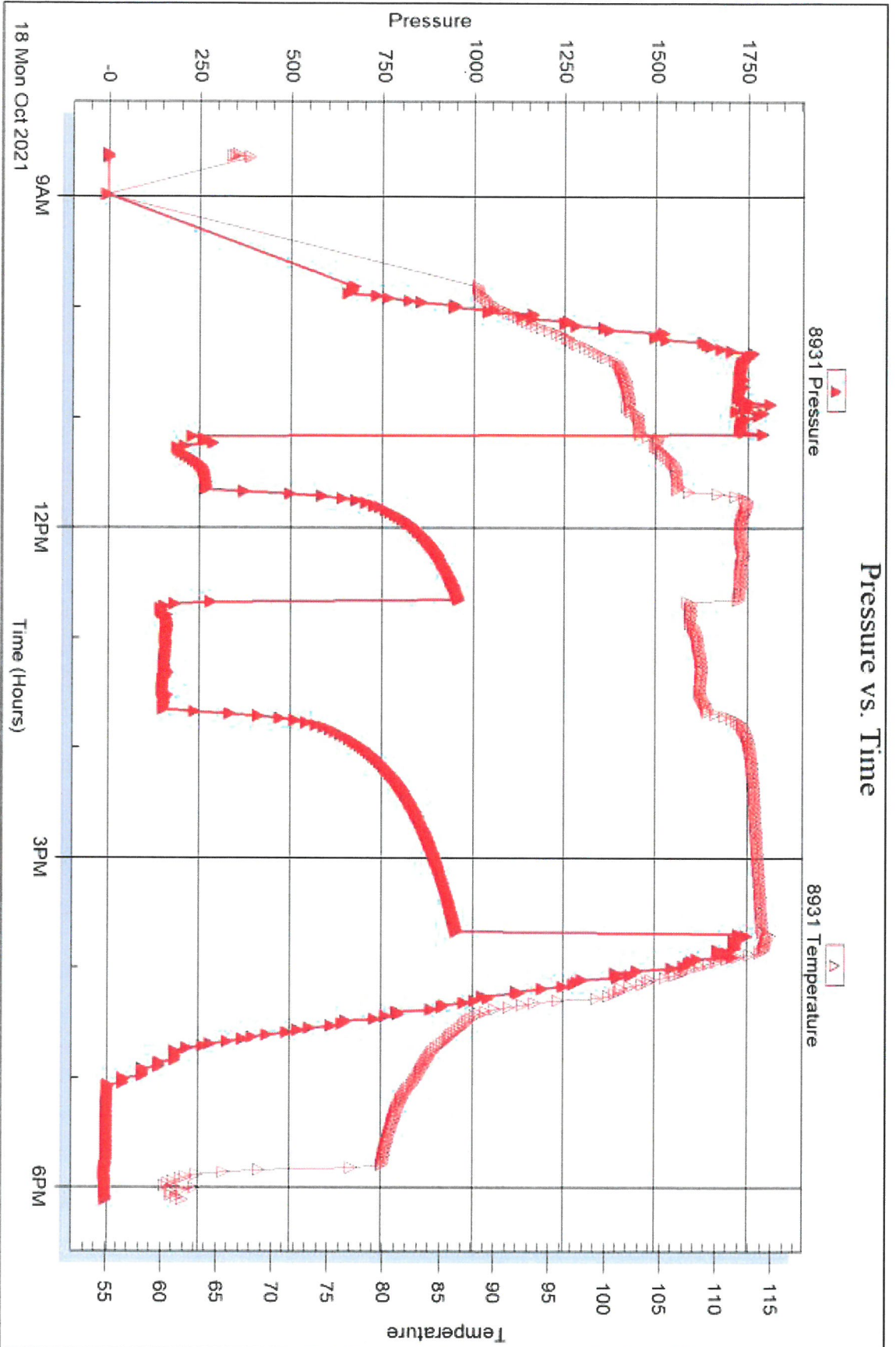


Serial #: 8931

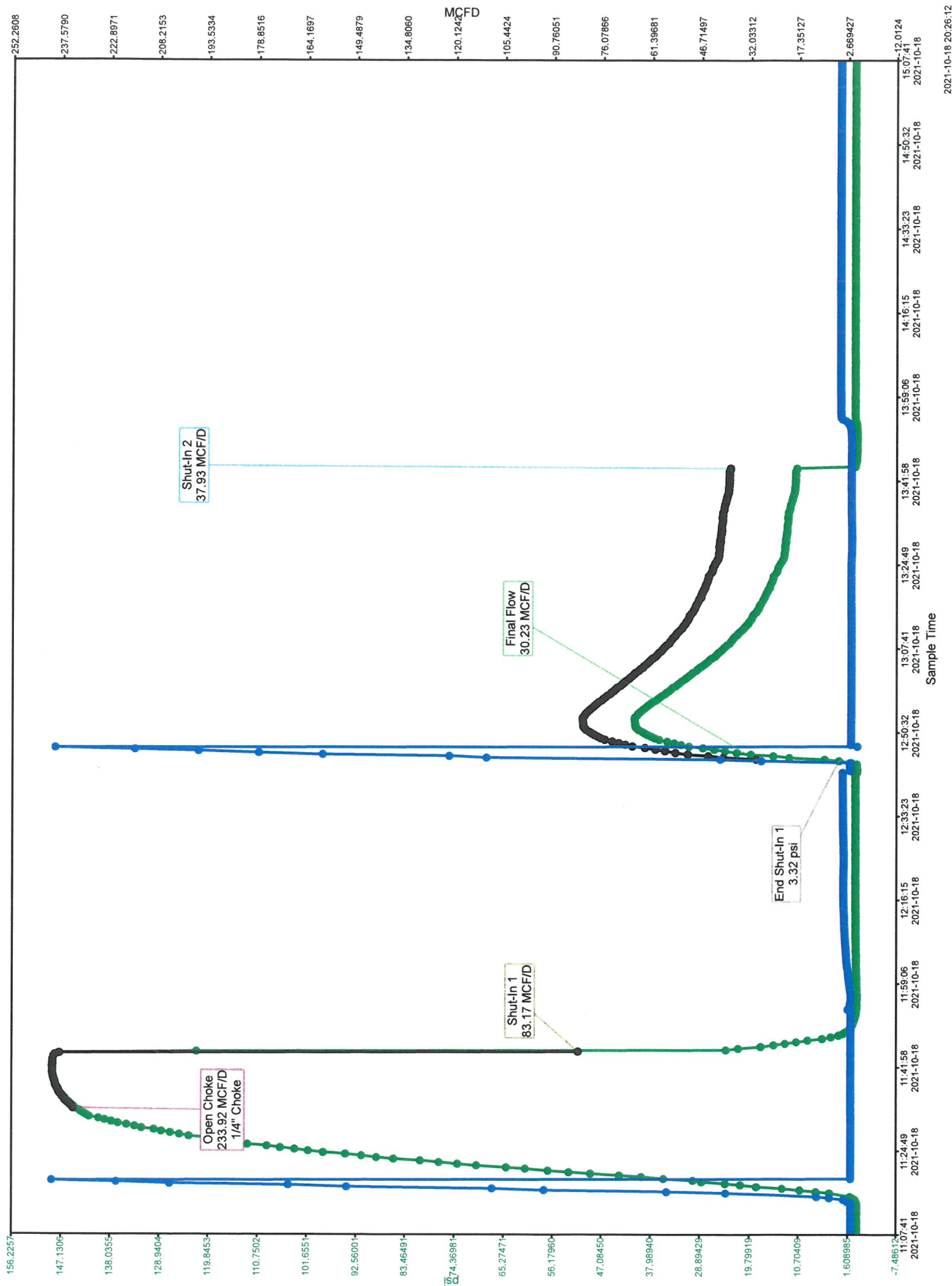
Outside Grand Mesa Operating Comp.

Sorenson 1-22

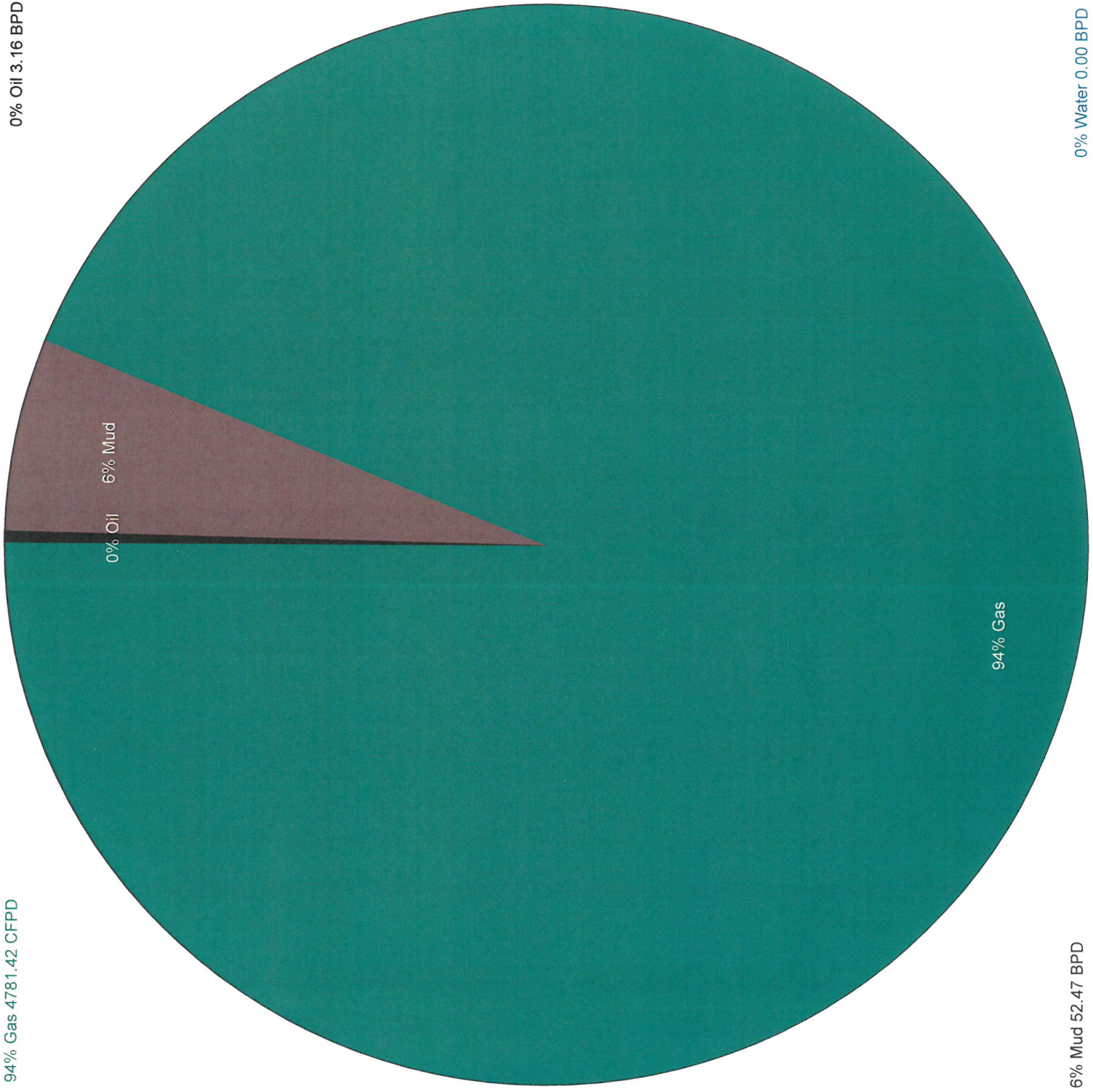
DST Test Number: 3

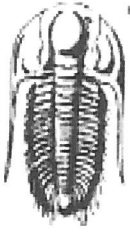


Grand Mesa Oil Company - Sorenson 1-22 - DST 3



Calculated Recovery Analysis - Grand Mesa Oil Company - Sorenson 1-22 - DST 3





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Comp.

22-24s-8w Reno Co Ks

1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206

Sorenson 1-22

Job Ticket: 67592

DST#: 4

ATTN: Kent Matson

Test Start: 2021.10.19 @ 18:23:30

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:30

Time Test Ended: 00:04:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **4076.00 ft (KB) To 4110.00 ft (KB) (TVD)**

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1644.00 ft (KB)

1639.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8788

Inside

Press@RunDepth: 25.71 psig @ 4077.00 ft (KB)

Start Date: 2021.10.19

End Date:

2021.10.20

Start Time: 18:23:35

End Time:

00:04:14

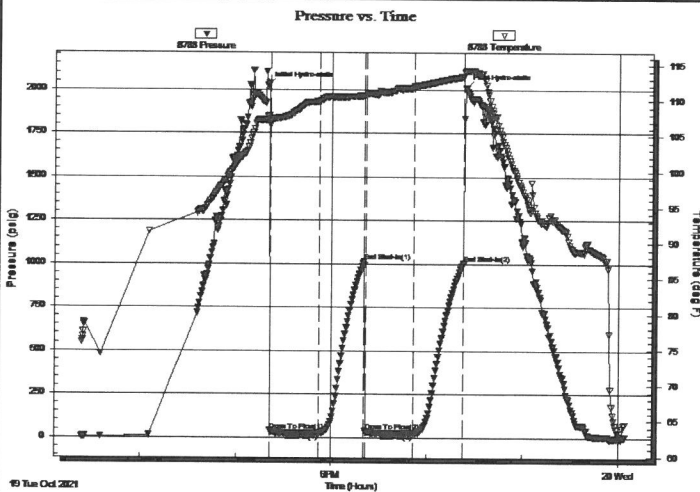
Capacity: 8000.00 psig

Last Calib.: 2021.10.20

Time On Btm: 2021.10.19 @ 20:19:45

Time Off Btm: 2021.10.19 @ 22:24:15

TEST COMMENT: IF: Weak Blow . Built to 1", in the Bucket. (30)
IS: No Blow . (30)
FF: Weak Blow . Built to 1/4", in the Bucket. (30)
FSI: No Blow . (30)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.78	107.72	Initial Hydro-static
2	39.03	107.01	Open To Flow (1)
33	25.71	109.94	Shut-In(1)
61	1016.01	110.67	End Shut-In(1)
62	36.75	110.70	Open To Flow (2)
92	25.71	111.87	Shut-In(2)
124	1005.09	113.36	End Shut-In(2)
125	2009.02	114.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	GO spec M 2%g 98%m	0.04
0.00	25' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Comp.

22-24s-8w Reno Co Ks

1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206

Sorenson 1-22

Job Ticket: 67592

DST#: 4

ATTN: Kent Matson

Test Start: 2021.10.19 @ 18:23:30

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:30

Time Test Ended: 00:04:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4076.00 ft (KB) To 4110.00 ft (KB) (TVD)

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1644.00 ft (KB)

1639.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8931 Outside

Press@RunDepth: psig @ 4077.00 ft (KB)

Start Date: 2021.10.19

End Date: 2021.10.20

Capacity: 8000.00 psig

Last Calib.: 2021.10.20

Start Time: 18:23:26

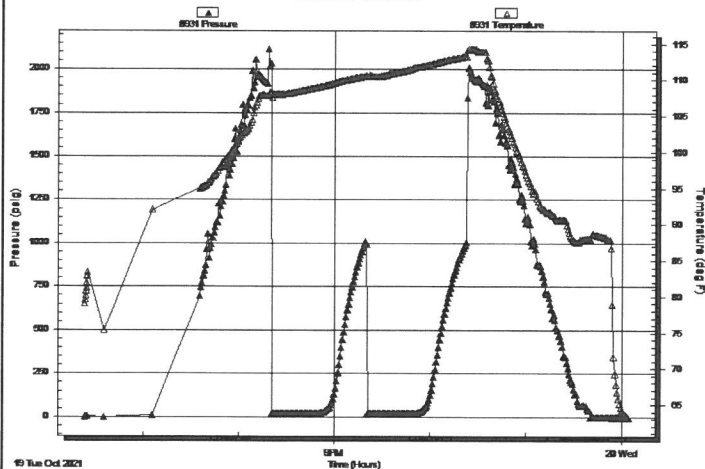
End Time: 00:04:05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 1", in the Bucket. (30)
IS: No Blow . (30)
FF: Weak Blow . Built to 1/4", in the Bucket. (30)
FSI: No Blow . (30)

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

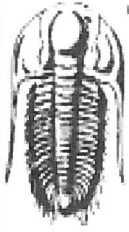
Recovery

Length (ft)	Description	Volume (bbl)
5.00	GO spec M 2%g 98%m	0.04
0.00	25' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Comp.
1700 N Waterfront PKWY BLDG 600
Wichita, Ks. 67206
ATTN: Kent Matson

22-24s-8w Reno Co Ks
Sorenson 1-22
Job Ticket: 67592 **DST#: 4**
Test Start: 2021.10.19 @ 18:23:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	7000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	GO spec M 2%g 98%m	0.038
0.00	25' GIP 100%g	0.000

Total Length: 5.00 ft Total Volume: 0.038 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None
 Laboratory Name: Laboratory Location:
 Recovery Comments: 25 Feet Gas in Pipe.

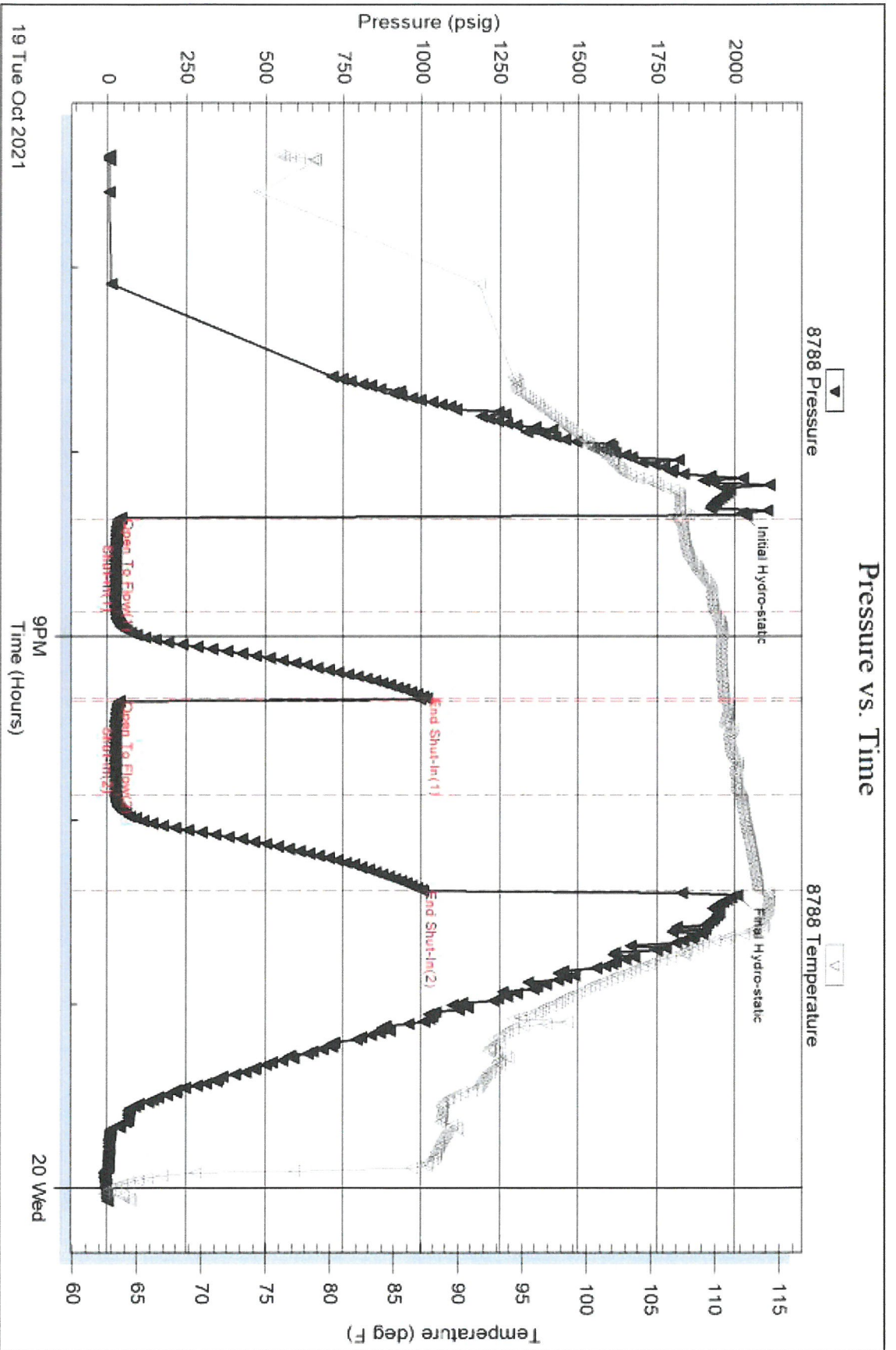
Serial #: 8788

Inside

Grand Mesa Operating Comp.

Sorenson 1-22

DST Test Number: 4

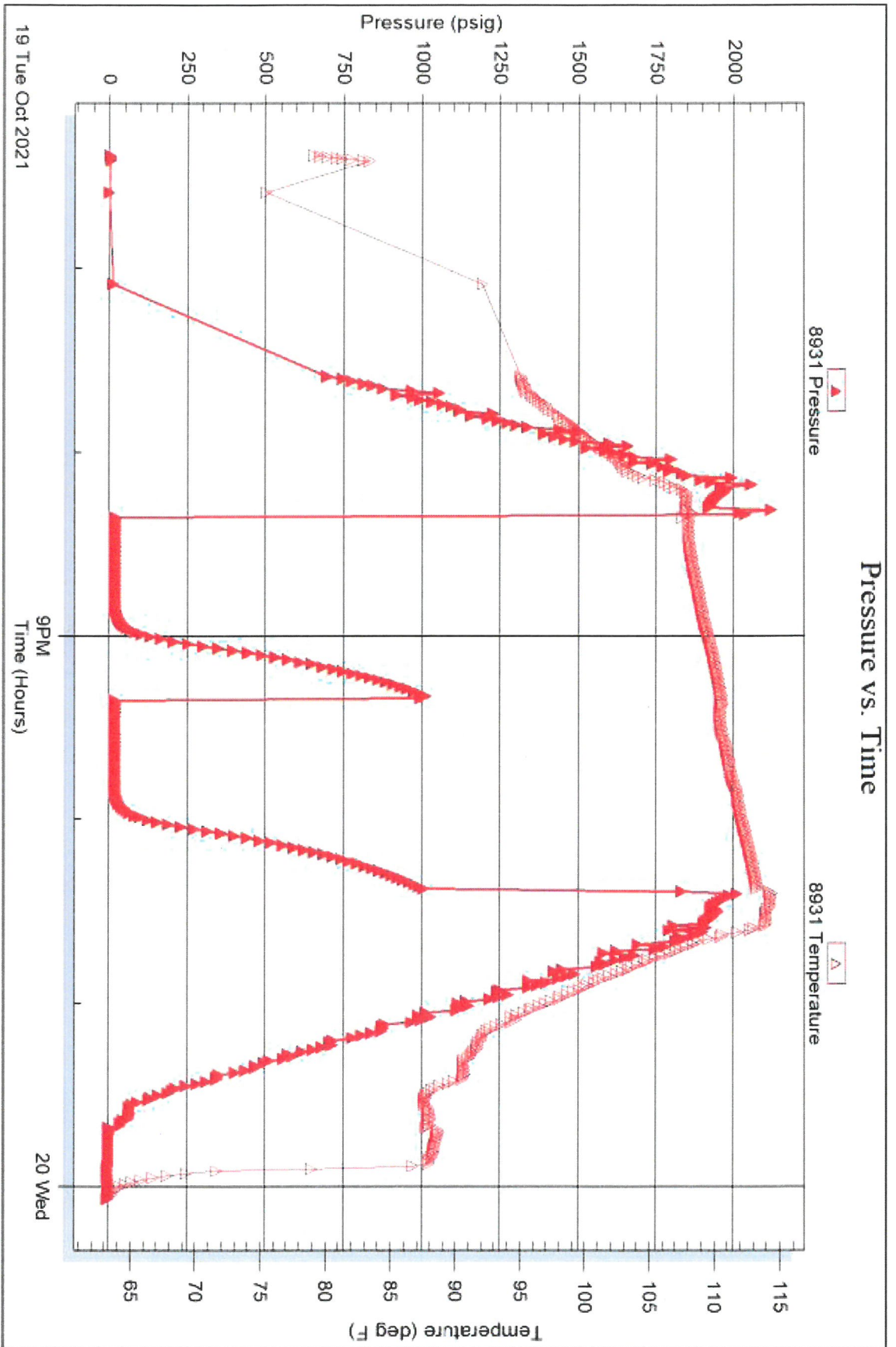


Serial #: 8931

Outside Grand Mesa Operating Comp.

Sorenson 1-22

DST Test Number: 4

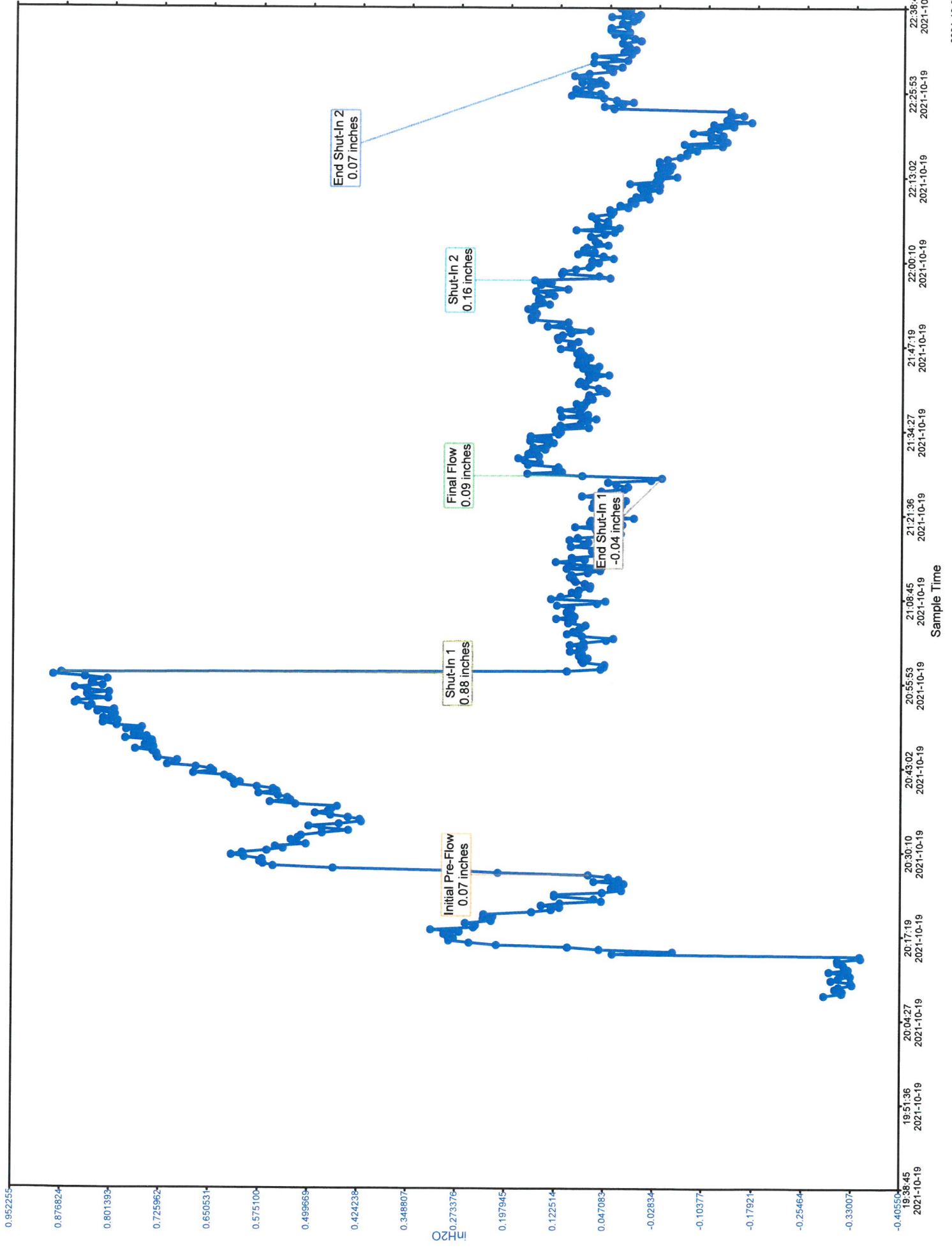


Trioble Testing, Inc

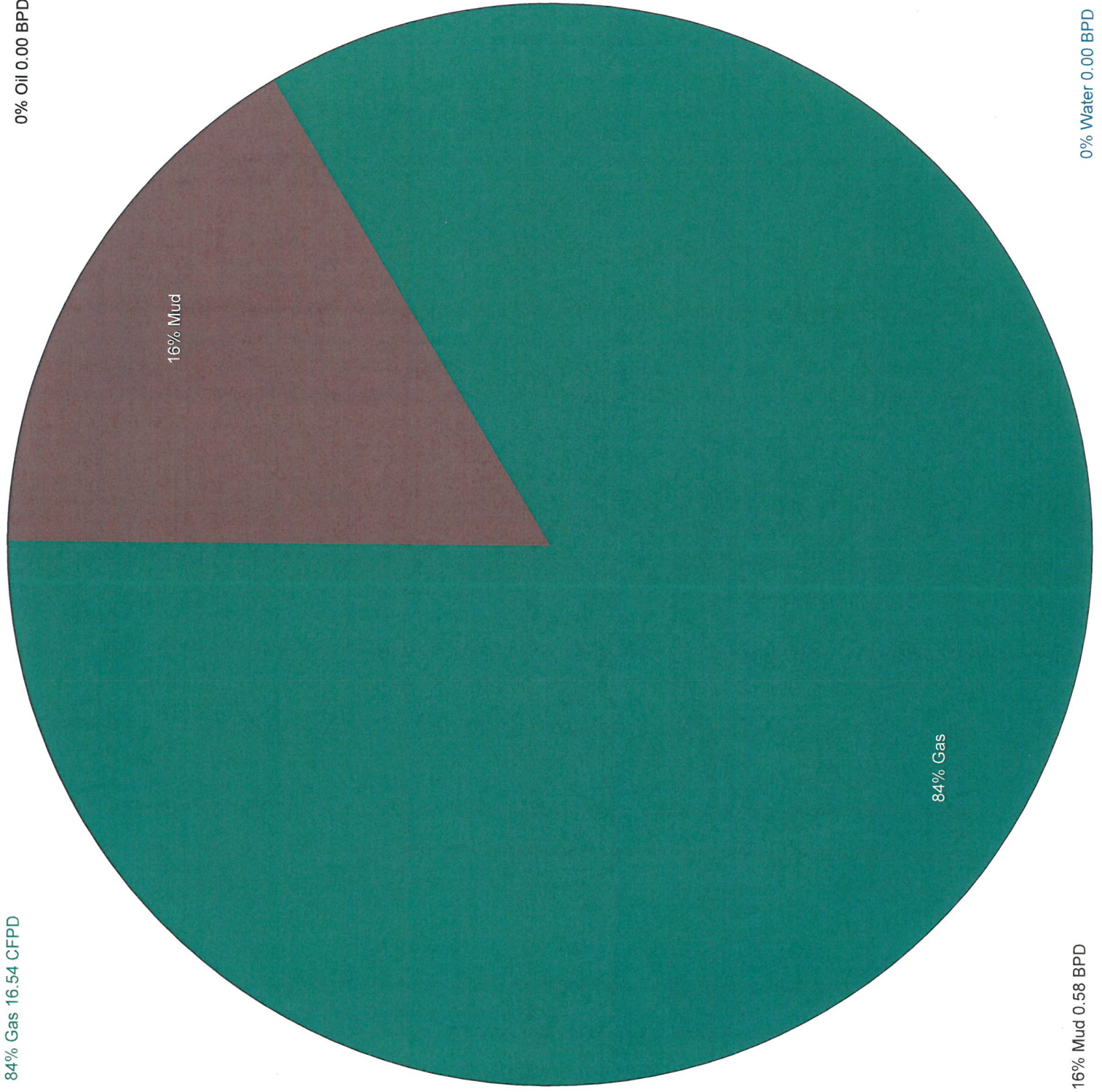
Ref. No: 67592

Printed 2021 10/20 @ 07:35:22

Grand Mesa Oil Company - Sorenson 1-22 - DST 4



Calculated Recovery Analysis - Grand Mesa Oil Company - Sorenson 1-22 - DST 4





STIMULATION TREATMENT REPORT

Customer: Grand Mesa Operating	Well: Sorenson #1-22	Ticket: EP3465
City, State:	County: Reno Co. KS	Date: 12/7/2021
Field Rep:	S-T-R:	Service: Frac

Downhole Information	
Formation:	Mississippi Lime
Casing:	5 1/2 in
Tubing:	in
Treatment Via:	
Perforations	
Top Perf:	3750 ft
Bottom Perf:	3770 ft
Shots Per Foot:	1 spf
Total Shots:	40 shots

Capacity			
Casing / Tubing:	bbls/ft		
Displacement:	90.5 bbls		
Pressure Test			
Iron Test:	3,000 psi		
Max Pressure:	3,000 psi		
Proppant (#)			
30/50	26,000	20/40	62,000
16/30RS	9,000	8/12	-
Diversion			
Salt	-	Balls	

Treatment Fluid		
Product	GPT	Gal
Water		
HiFlo		147.0
MicroSurf		56.0
KCl		111.0
Biocide		12.0
NE		56.0
Breaker		5.0
Acid		

Time	Rate	PSI	PPG	Stage Pounds	Stage BBLs	Total BBLs	Remarks
		1,450			-	44.0	Load Hole
	36.5	1,425			480.0	524.0	Start HiFlo pad
		1,425	0.10	500.0	120.0	644.0	Start 30/50 sand
		1,400	0.20	1,000.0	120.0	764.0	
		1,400	0.30	1,500.0	121.0	885.0	
		1,425	0.40	2,000.0	121.0	1,006.0	
		1,450	0.50	3,000.0	146.0	1,152.0	
		1,450	0.60	3,600.0	147.0	1,299.0	
		1,475	0.70	4,200.0	147.0	1,446.0	
		1,500	0.80	4,800.0	148.0	1,594.0	
		1,550	0.90	5,400.0	49.0	1,643.0	
		1,525	1.00	8,000.0	199.0	1,842.0	Start 20/40 sand
		1,550	1.50	9,000.0	153.0	1,995.0	Hybrid 2 Fluid
		1,750	2.00	12,000.0	156.0	2,151.0	
		1,750	2.50	15,000.0	159.0	2,310.0	
		1,800	3.00	18,000.0	162.0	2,472.0	Hybrid 3 Fluid
		1,825	3.00	9,000.0	81.0	2,553.0	Start 16/30 Resin Coat sand
		2,300			101.0	2,654.0	Start Hybrid 1 Flush
		1,420			-	2,654.0	ISIP
		862			-	2,654.0	5 minute shut in
		804			-	2,654.0	10 minute shut in
		785			-	2,654.0	15 minute shut in

	CREW	UNIT	SUMMARY		
Treater / Foreman:	Jake M.	81	Average Rate (bpm)	Max Rate (bpm)	Total Proppant (#)
Pump Operator:	Garrett S.	524/801	36.5	36.5	97000
Sand:	Ryan H.	816	Average PSI	Max Pressure (psi)	Total Load (bbls)
Water:	Russell S.	140/805	1469	2300	2654
Acid:	JJ B.	815			

CurrentJobRpt.RPT
 FINAL JOB TOTAL REPORT

Zone Segment Number 1	CARRIER		FLA	CONCENTRATION		WEIGHT		PUMPED		DESIGNED		SLURRY		JOB AVERAGES	
	STAGE #	DESIGNED		PUMPED	PPA	DESIGNED	PUMPED	DESIGNED	PPA	DESIGNED	PPA	DESIGNED	DESIGNED	SLR-RATE	STP
SOLIDS	bbis	bbis	gal	ppa	ppa	lbs	lbs	lbs	lbs	bbis	bbis	bbls	bbls	bpm	psi
1	520.2	523.8	0.00	0.00	0.00	10.20	0.00	520.2	523.8	31.6	1216.22	2726.13			
0.10															
2	115.9	119.0	0.00	0.10	0.10	489.65	500.00	116.5	119.6	36.6	1415.62	2882.63			
0.10															
3	118.7	119.0	0.00	0.20	0.20	998.74	1000.00	119.7	120.1	36.6	1423.03	2903.02			
0.20															
4	117.4	119.0	0.00	0.30	0.30	1480.82	1500.00	119.0	120.7	36.6	1416.75	2903.65			
0.30															
5	117.5	119.0	0.00	0.40	0.40	1967.51	2000.00	119.7	121.2	36.6	1422.42	2918.39			
0.40															
6	140.4	142.9	0.00	0.50	0.50	2944.77	3000.00	143.6	146.1	36.7	1424.21	2935.12			
0.50															
7	141.2	142.9	0.00	0.60	0.60	3560.94	3600.00	145.1	146.7	37.0	1441.53	2952.44			
0.60															
8	139.6	142.9	0.00	0.70	0.70	4099.77	4200.00	144.0	147.4	37.1	1478.47	2999.31			
0.70															
9	153.9	142.9	0.00	0.80	0.80	5172.35	4800.00	159.5	148.0	37.1	1498.58	3035.98			
0.80															
10	139.5	142.9	0.00	0.90	0.90	5267.25	5400.00	145.2	148.7	37.1	1516.03	3057.40			
0.90															
11	199.2	190.5	0.00	1.00	1.00	8397.73	8000.00	208.2	199.1	37.1	1541.75	3098.13			
1.00															
12	143.4	142.9	0.00	1.50	1.50	9057.11	9000.00	153.1	152.6	37.0	1528.13	3120.37			
1.50															
13	139.9	142.9	0.00	2.00	2.00	11777.24	12000.00	152.7	155.8	36.6	1573.56	3205.28			
2.00															
14	147.4	142.9	0.00	2.50	2.50	15491.13	15000.00	164.1	159.0	36.3	1597.81	3275.45			
2.50															
15	142.2	142.9	0.00	3.00	3.00	17899.78	18000.00	161.5	162.3	36.4	1779.90	3497.17			
3.00															
16	92.3	71.4	0.00	2.39	3.00	9282.80	9000.00	102.4	81.1	37.0	1839.99	3557.26			
2.93															
17	103.0	100.0	0.00	0.00	0.00	0.00	0.00	103.0	100.0	36.3	912.64	2525.99			
0.00															

FracJob	2671.8	2647.6	0.00	0.87	0.87	97897.78	97000.00	2777.4	2752.3	35.7	1329.60	2897.28			
1.18															
TotlJob	2671.8	2647.6	0.00	0.87	0.87	97897.78	97000.00	2777.4	2752.3	35.7	1329.60	2897.28			
1.18															

grandmessorenson122.dat Grand Mesa Sorenson 1-22 Mississippi

