

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

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](mailto: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	SCHABEN 7
Doc ID	1664895

All Electric Logs Run

CD/CN PE Log
DI Log
Sonic Log
Micro Log
CBL

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SCHABEN 7
Doc ID	1664895

Tops

Name	Top	Datum
Stone Corral	1624	+748
Bs/Stone Corral	1655	+717
Heebner	2655	-1293
Lansing	3709	-1337
BKC	4001	-1629
Ft Scott	4207	-1835
BPL	4272	-1900
Mississippian	4304	-1932
Gilmore City	4477	-2105
LTD	4544	N/A



# 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: Schaben #7  
API: 15-135-26179  
Location: NW SW NE SW Sec. 19 T17S-R24W  
License Number: 9855  
Spud Date: 8/29/2022  
Surface Coordinates: Lat: 38.556005  
Lng: -100.023474  
Bottom Hole (Same)  
Coordinates:  
Ground Elevation (ft): 2365 K.B. Elevation (ft): 2372  
Logged Interval (ft): 3500 To: 4541 Total Depth (ft): 4541  
Formation: Mississippian  
Type of Drilling Fluid: Water-Based Chemical Mud  
Region: Kansas  
Drilling Completed: 9/5/2022

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

### OPERATOR

Company: Grand Mesa Operating Company  
Address: 1700 North Waterfront Parkway  
Bldg # 600  
Wichita, Kansas 67206

### GEOLOGIST

Name: Gareth Dinkel  
Company: Grand Mesa Operating Company  
Address: 1700 North Waterfront Parkway  
Bldg # 600  
Wichita, Kansas 67206

### COMMENTS

Analysis of Sample Shows, DST and Wireline results indicate a viable Mississippian reservoir. It is recommended that 5-1/2 production casing be set to further test that Schaben #7.

Respectfully Submitted,  
Gareth Dinkel



### DRILL STEM TEST REPORT

Grand Mesa Operating, Co  
1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206  
ATTN: Gareth Dinkel

19-17s-24w Ness, KS

Schaben #7

Job Ticket: 68925

DST#: 1

Test Start: 2022.09.03 @ 03:47:00

GENERAL INFORMATION:

Formation: Ft. Scott  
 Deviated: No Whipstock: 2372.00 ft (KB)  
 Time Tool Opened: 06:02:47  
 Time Test Ended: 12:31:02

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 69

Interval: 4174.00 ft (KB) To 4233.00 ft (KB) (TVD)  
 Total Depth: 4233.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Bevatons: 2372.00 ft (KB)  
 2362.00 ft (CF)  
 KB to GR/CF: 10.00 ft

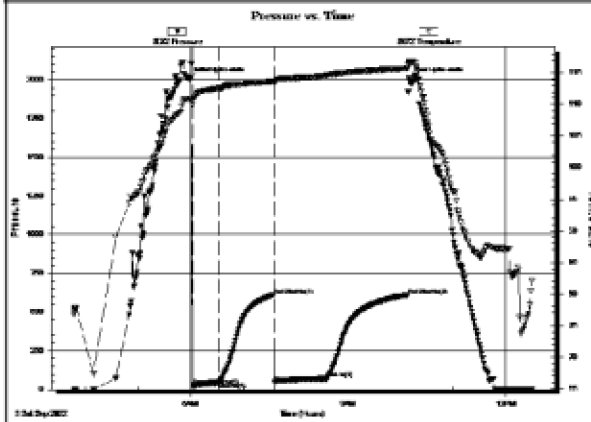
**Serial #: 8672**

**Inside**

Press@RunDepth: 69.89 psig @ 4176.00 ft (KB)  
 Start Date: 2022.09.03 End Date: 2022.09.03  
 Start Time: 03:47:01 End Time: 12:31:02

Capacity: psig  
 Last Calib.: 2022.09.03  
 Time On Btm: 2022.09.03 @ 05:59:02  
 Time Off Btm: 2022.09.03 @ 10:09:32

TEST COMMENT: IF: 30 min., BOB 25 inches, strong building blow, 13 inches  
 IS: 60 min., no blow back  
 FF: 60 min., BOB 13 min., strong building blow, 25 inches  
 FS: 90 min., no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.02	110.82	Initial Hydro-static
4	23.99	110.37	Open To Flow (1)
33	45.11	112.51	Shut-h(1)
96	610.44	113.57	End Shut-h(1)
97	45.65	113.50	Open To Flow (2)
156	69.89	114.57	Shut-h(2)
249	610.08	115.73	End Shut-h(2)
251	2002.65	116.54	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	gas cut oily mud 50%G,15%O,35%M	0.30
60.00	gas cut oily mud 5%G,5%O,90%M	0.30

**Gas Rates**

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

Trilobite Testing, Inc

Ref. No: 68925

Printed: 2022.09.07 @ 11:42:34



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Grand Mesa Operating, Co  
 1700 N Waterfront Pkwy  
 BLDG 600  
 Wichita, KS 67206  
 ATTN: Garett Dinkel

19-17s-24w Ness, KS

Schaben #7

Job Ticket: 67896 DST#: 2  
 Test Start: 2022.09.03 @ 22:25:00

**GENERAL INFORMATION:**

Formation: Miss.  
 Deviated: No Whipstock: 2372.00 ft (KB)  
 Time Tool Opened: 00:39:47  
 Time Test Ended: 08:00:47

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 69

Interval: 4269.00 ft (KB) To 4312.00 ft (KB) (TVD)  
 Total Depth: 4312.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Bevatons: 2372.00 ft (KB)  
 2362.00 ft (CF)  
 KB to GR/CF: 10.00 ft

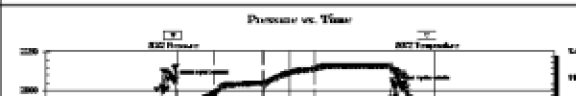
**Serial #: 8672**

**Inside**

Press@RunDepth: 103.89 psig @ 4270.00 ft (KB)  
 Start Date: 2022.09.03 End Date: 2022.09.04  
 Start Time: 22:25:01 End Time: 08:00:47

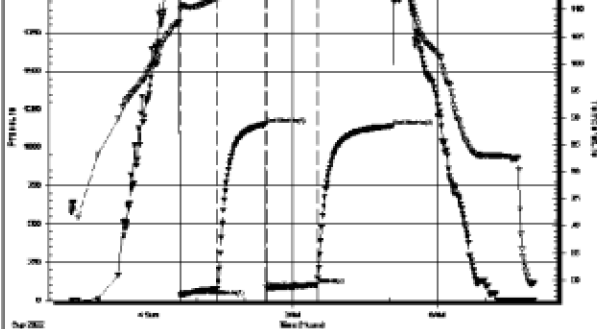
Capacity: psig  
 Last Calib.: 2022.09.03  
 Time On Btm: 2022.09.04 @ 00:36:02  
 Time Off Btm: 2022.09.04 @ 05:10:32

TEST COMMENT: IF: 45 min., strong building blow, 9 inches  
 IS: 60 min., no blow back  
 FF: 60 min., strong building blow, 11 inches  
 FS: 90 min., no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.02	110.82	Initial Hydro-static
4	23.99	110.37	Open To Flow (1)
33	45.11	112.51	Shut-h(1)
96	610.44	113.57	End Shut-h(1)
97	45.65	113.50	Open To Flow (2)
156	69.89	114.57	Shut-h(2)
249	610.08	115.73	End Shut-h(2)
251	2002.65	116.54	Final Hydro-static



0	2081.20	107.34	Initial Hydro-static
4	33.37	109.96	Open To Flow (1)
50	71.97	112.19	Shut-in(1)
111	1151.31	114.12	End Shut-in(1)
111	82.37	113.77	Open To Flow (2)
174	103.89	116.75	Shut-in(2)
269	1140.67	117.31	End Shut-in(2)
275	2021.46	116.48	Final Hydro-static





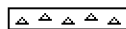
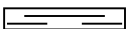



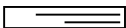



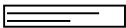
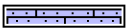











**Recovery**

Length (ft)	Description	Volume (bbl)
246.00	gassy oil 10%G,90%O	2.36

**Gas Rates**

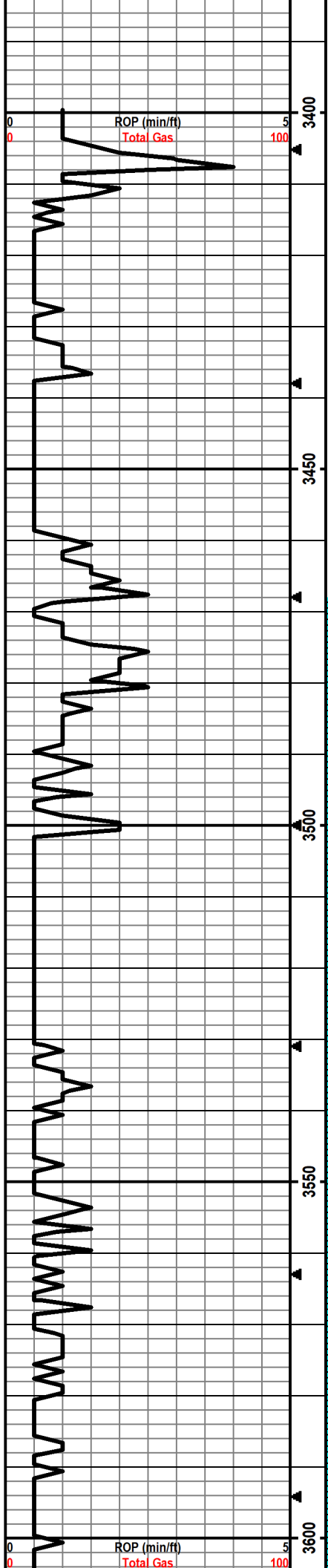
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

**ROCK TYPES**

 Anhy	 Salt	 Dol	 SltysH
 Cht	 Shale	 Dtd	 Sdy dolo
 Coal	 Shcol	 Gry sh	 Silty dolo
 Congl	 Shgy	 Sandylms	 Shy dolo
 Dol	 Sltst	 Shale	 Shaly ls
 Gyp	 Ss	 Sltstn	
 Lmst	 Carb sh	 Shlysts	

Curve Track 1		MD	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
ROP (min/ft)	Total Gas						
0	0	33				Grand Mesa Operating Company Schaben #7 NW SW NE SW Sec.19 T17S-R24W GL: 2,365' KB: 2,372' (+3 From Survey) RTD: 4,541' LTD: 4,544'	Mud-Co Mud Check #1 8/29/22 Pre-Spud Recomendations
		3350				Company Representative : Mr. Steve Stribling Office: (316)-265-3000	Mud-Co Mud Check #2 8/31/22 2,857 ft. Wt. 9.4 Vis. 30 LCM 1# Filt. NC ml/30min 160 ppm. Chloride
						Drilling Contractor: Pickrell Rig # 10 Office:	Daily Cost: \$7,263.21 Cum. Cost: \$7,263.21
						Tool Pusher: Scotty Piland Cell: (620) 639-1843	
						Drilling Fluids: Mud-co/Service Mud Inc. Reid Atkins Cell: (785) 694-3741	
						Drill Stem Testing: Triobite Testing Chris Hagman 785-656-3947	
						Wireline Logs: ELI Wireline (CDNL-DIL-Micro) Jeff Leubbers	





Begin 1ft Geograph Drilltime at @ 3400ft.

10ft Sample Begin at 3500ft.

Ls-frm-gry, few mott blk, micro-xln, sl. dense, arg. sandy, abun. Sh-soft waxy, NS 3500

LS- AA 3510

Ls-frm, micro-xln, earthy, arg. soft, chalky, no vis por. no odor NS 3520

Ls-frm, mico-xln sl. dense, no vis por no odor NS3530

Ls-frm-gry, earthy, arg. no vis por. no odor NS 3540

LS aa 3550

Sample Skip 3560

Ls-frm mott gray, micro-xln dense, earthy, arg. foss (ool) no vis por, NS 3570

Ls-AA, few w/ f-g pp-inter foss por. no odor NS 3580

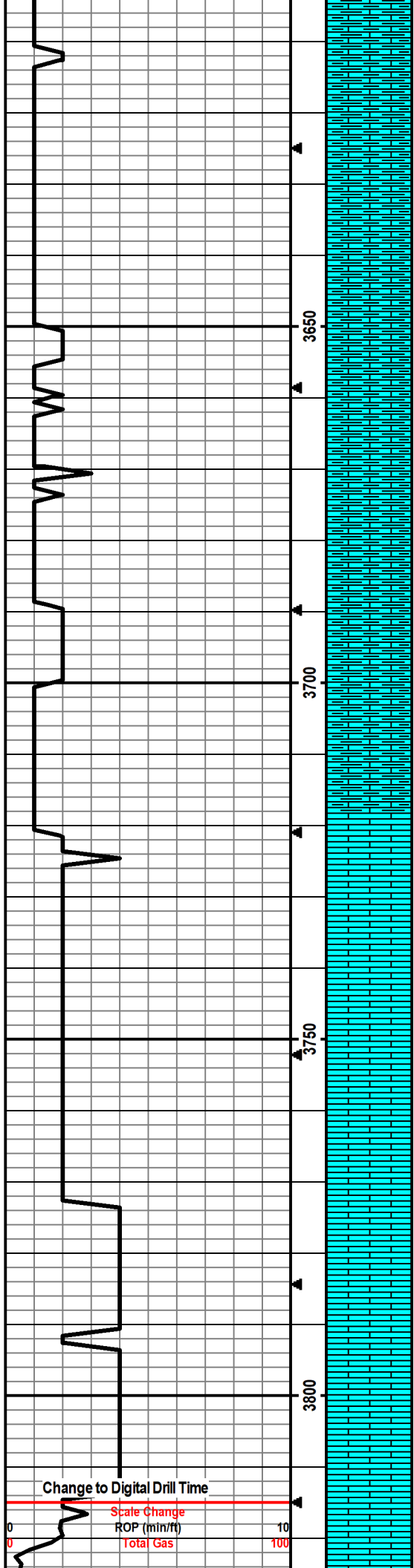
Ls-frm-gry, micro-xln dense, arg. w/ siltstn: bm dense, few pcs Sh-blk, dense, sl. carb3590

Ls- frm-tan, micro-xln, sl. dense, arg. sl.foss(pelletal-ool) w/ few pcs Sh-blk dense, sl carb. no vis por. no odor, NS 3600

Ls-frm-tan mott bm, micro-xln sl. dense, earthy, arg. sl foss. (pelletal-ool) no vis por. no odor NS 3610

Ls-frm, micro-xln v. dense. no cis por. no odor NS 3620

Ls-frm-gry mott bm, micro-xln, sl. dense, earthy, arg. no vis por. no odor NS 3630



Predom Ls- AA, few cm, micro-xln, v.dense, no vis por. no odor NS 3640

Ls- crm-gry mott bm, micro-xln, sl. dense, arg. foss (crin/ool) no vis por. no odor NS 3650

Ls AA Few pcs Siltstn-tan-br dense no vis por. no odor NS 3660

Ls crm- tan, micro-xln, sl. dense, arg, crinoidal, w/ siltstn gry-gm, glac. scat pyrite. no vis por. no odor NS 3670

Ls-crm-tan mott bm micro-xln. sl dense, arg. no vis por. no odor NS 3680

Ls-crm-tan, mott bm, micro-xln sl. dense arg. earthy, glac foss(crin/pelletal-ool) no vis por, no odor, no show 3690

Ls- tan-bm, micro-xln, sl. dense, arg. earthy, scat pyrite. no vis por, no odor, NS 3700

Ls- AA w/ few siltstn:tan, gm, bm, dense waxy no vis por, no odor NS 3710

Ls- bm, micro-xln, sl. dense, arg, earth, no vis por, no odor, NS 3720

Ls-crm, micro-xln, dense, no vis por, no odor NS 3730

Sample Skip 3740

Sample Skip 3750

Ls- crm-mott bm, micro-xln. sl. dense, arg earthy, no vis por., no odor NS 3760

Ls-crm-tan, micro-xln, dense, w/ siltstn-gry-tan dense no vis por. no odor, NS 3770

Predom LS- crm mott bm, micro-xln, sl. dense, earthy w/ few pcs Sh-blk dense sl.carb, abun siltstn gry-gm waxy No vis por., no odor, NS 3780

AA 3790

Ls-wht-micro-xln, dense, foss (pelletal) w/ f. intr-foss por. no odor no show 3800

LS- gry, micro-xn, dense, no vis por. no odor, NS 3810

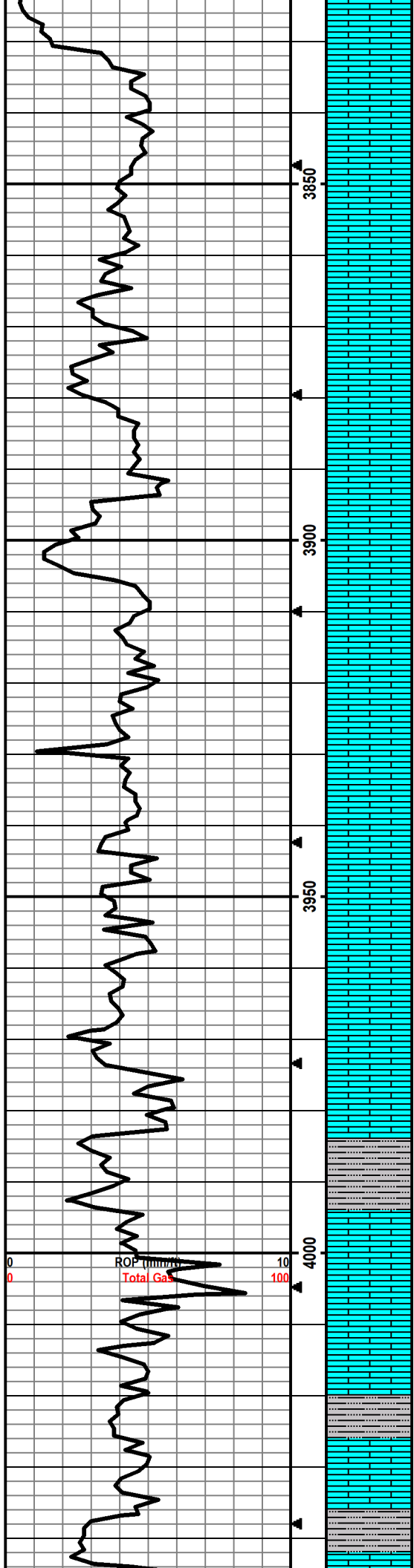
Ls- crm, micro-xln, dense, no vis por., no odor NS 3815

Ls-crm-bm. micro-xln. dense. few foss (pelletal-ool) w/f-q pp to oolcastic

Mud-Co Mud Check #3  
9/1/22  
3,704 ft.  
Wt. 8.8  
Vis. 47  
LCM 1#  
Filt. 6.8 ml/30min  
2,000 ppm. Chloride

Daily Cost: \$2,840.99  
Cum. Cost: \$10,104.20

CFS 3815 60min  
Trip for Bit  
PDC for Cone



por. hvy re-xln spar. no odor, no flor, NS. 3860

Ls-crm-tan, micro-xln, v.dense, few foss (ool) sparry, no vis por. no odor NS. 3870

LS- AA w/ few Siltstn-gry-bm, dense, few sl. carb no vis por., no odor, NS 3880

Ls-crm-bm, micro-xln, dense, foss(ool), scat chert-wht-tan, fresh sharp, no vis por., no odor NS 3890

Ls-lt gry, micro-xln, dense, no vis por. no odor NS 3900

Predom Ls crm-gry micro-xln, dense, sl.sparry w/few Siltstn-gry-gm, dense waxy. No vis por. no odor NS3910

Ls-tan, micro-xln, dense few pcs sl. foss (pelletal), w/ f pp-interfoss por. no odor, no flor, NS 3920

Ls-wht-crm, micro-xln, soft, sl.chalky, no vis por. no odor NS 3930

Flood Ls-crm-tan, micro-xln, dense, v. foss (ool), w. p. ool-castic por. few w/ f. inter-foss por., few siltstn-tan-bm soft, no odor, no flor, NS 3940

Ls-crm, micro-xln, dense, no vis por. no odor NS 3950

Flood Sh-bm-blk, dense, sl.silty, w/ Ls gry mott bm, micro-xln, sl. earthy, no vis por, no odor NS 3960

Ls-crm-bm, micro-xln, dense, sl. sparry, no vis por. no odor NS 3970

Ls-crm-gry, micro-xln, dense, sl. sparry, few ool, w/chert clasts, no vis por. no odor NS 3980

Sh-bm, dense, w/ Ls-crm-tan mico-xln, dense, sl. sparry, sl.foss (ool) no vis por, no odor NS 3990

Ls-crm-bm, micro-xln, dense, sl. arg, sl. spar. no vis por, no odor, NS 4000

Ls-crm, micro-xln, dense, no vis por, no odor, NS 4010

Flood Sh-gry-blk, soft, mushy, sl. waxy, no vis por. no odor NS 4020

Predom Sh-AA w/ Few Ls-bm, micro-xln, dense, foss frags (ool-pelletal), no vis por. no odor, NS 4030

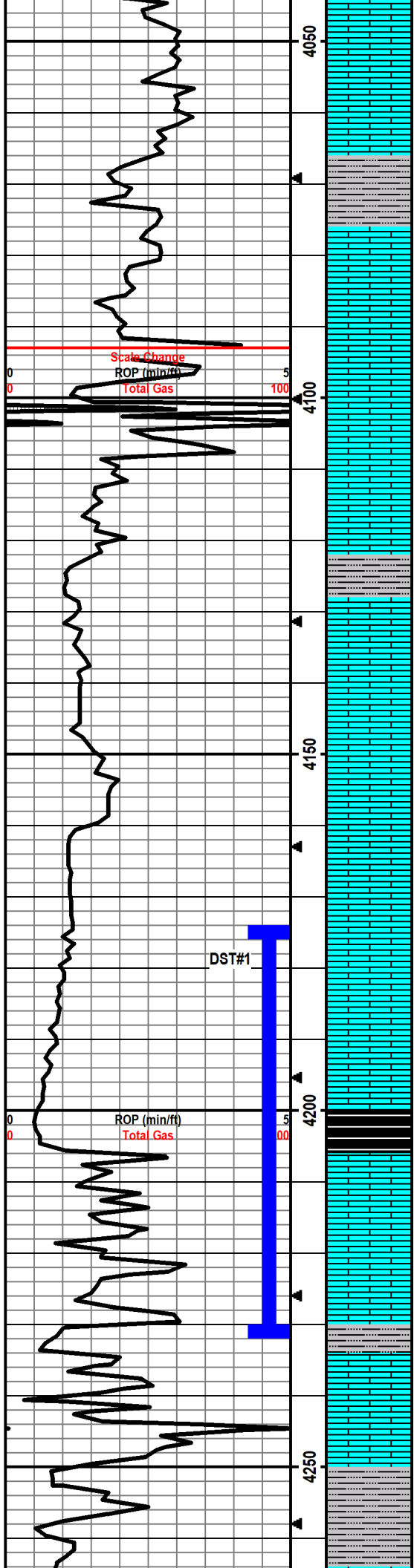
Ls-bm, mico-xln, v.dense, sparry, no is por, no odor NS 4040

Ls crm-bm, AA no vis por. no odor NS 4050

Flood Siltstn red-bm, soft, globular w/Ls gry-bm, micro-xln, dense, foss (crin), No vis por. No odor, NS 4060

Ls-crm, micro-xln, sl. dense, foss (ool) w/ f. re-xln cement, few pcs w/ f-g iner-xln por. no odor, no flor, NS 4070

Flood siltstn-gry-gm, bm-red, soft,4080



Ls-tan-bm, micro-xln, v.dense, no vis por. no odor NS4090

Sh-gry-gm, red-bm, soft silty, 4093 20min

Ls- cm, micro-xln, dense, sl. chalky, no vis por. no odor NS 4093 40min

Predom Ls-cm, micro-xln, dense, few pcs w/ foss frags (pelletal/fuss) w/siltstn-gry no vis por., no odor, NS 4130

Ls-cm-gry, micro-xln dense, no vis por., no odor, NS 4140

Ls- AA 4150

LS- cm-micro-xln, v.dense, no vis por., no odor, w/Siltstn-gry, dense NS 4160

Ls-gry, mico-xln, sl. dense, no vis por, no odor NS 4170

Ls- AA 4180

Predom. Ls- lt. bm, micro-xln, sl. dense, fe no vis por., no odor NS 4190

Ls-lt. bm, micro-xln, sl. dense, no vis por., no odor NS 4200

Ls-AA 4210

Flood Sh, gry-blk, dense 4220

Mostly Ls- cm, micro-xln, dense, foss frags (crin, pelletal-ool), w/ m. re-xln spar, no vis por., few pcs w/f-g pp-inerxln por. w/ f. show v. light bm oil, g.show on break, strong odor, g. cup odor, lt. gm try flor. lazy staw color stream cut. 4230

Ls- AA / w/m-corse-xln spar, f-g iner-xln por w/some sl vuggy, w/lt. bm stain, FSFO, good show on break, several pcs trey flor AA 4232 20min

Ls- cm, micro-xln, soft, w/ v.f.g. inter-xln por. (sugary) lt. bm stain, NSFO, g. show w/ g. odor on break, strong milky stream. g. cup odor 40min

Ls-cm-bm, micro-xln, dense w/ siltstn-gry-gm soft mushy. no vis por., no odor, NS 4260

Flood Sh-gry-gm, dense waxy, no vis por. no odor NS 4280

Predom- Sh-AA v. Ls-cm-bm, micro-xln, v.dense, few with earthy, no vis por. no odor NS 4290

Mud-Co Mud Check #4  
9/2/22  
4,060 ft.  
Wt. 9.0  
Vis. 56  
LCM 2#  
Filt. 6.4 ml/30min  
3,500 ppm. Chloride

Daily Cost: \$3,804.54  
Cum. Cost: \$13,907.700

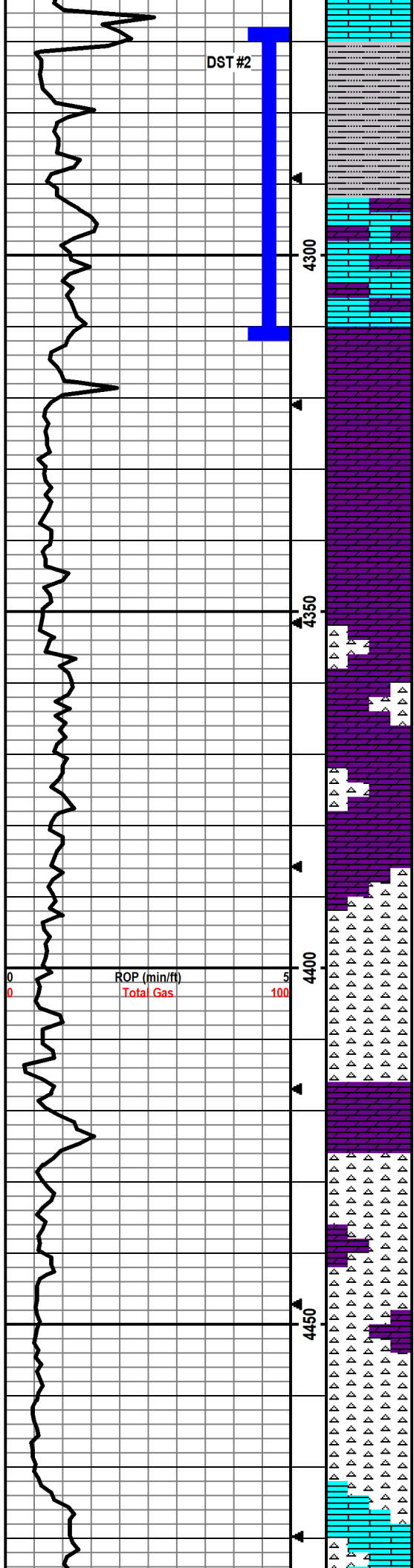
\*\*At 4093', bit began torquing. Contractor elected to trip for bit. Replaced with PDC

DST #1  
Ft. Scott  
4,174'-4,233'  
30-60-60-90  
Rec:  
315' GIP  
60' GCOM  
(50%G 15%O 35%M)  
60' GCOM  
(5%G 5%O 90%M)

IF: 24-45  
ISIP: 610  
FF: 46-70  
FSIP: 610  
HP 2007-2003

CFS 4233  
20/40min

Mud-Co Mud Check #5  
9/3/22  
4,233 ft.  
Wt. 9.2  
Vis. 57  
LCM 2#  
Filt. 7.2 ml/30min  
3,000 ppm. Chloride



no odor, NS 4290

Flood Sh-maroon mott gm, w/ Clust SS-wht-trans, w. cmt's, w. md', w.sorted, chalky in part, no vis por. no odor, no flor, NS 4292 20

Sh- maroon, mott gm, yellow-red w/ Clust SS AA, No vis por. no odor, 2 pcs tarry dead stain. NSFO, no odor NS 4292 40

Ls-crm-tan, micro-xln v.dense, few pcs Dolo, wht, m-xln, soft w/ tarry dead stain, SI SFO on break, no flor. no odor 4310

Ls-crm-brn, micro-xln, dense, few pcs w/ g. vuggy por w/ F.SFO, G.SFO on break, w/Dolo-wht, m-xln, tarry blk stain, f.sfo on break, g. odor, scat SFO in tray, 4312 20min

Ls-AA w/ flood DOLO- crm, f-m.xln, dense w/f-g pp-vuggy por. many w/tarry blk stain, few w/SFO, g. SFO on break, abun FO in tray, strong odor. g. try flor. 15% bright gm flor, 4312 40min

Dolo- crm-brn, f-m-xln, dense. w/ g. pp-vuggy por. abun. black stain, many w/ g.SFO, F.SFO in try. good pale green flor. 10% try, strong odor. 4360

Dolo-crm-tan, m-xln, dense AA w/f-g pp-sl. vuggy por. decrease in staining. Few pcs w/ f.SFO, G.SFO on break sl. odor. decrease in try flor >5%. 4370

Dolo- AA, w/g. pp-vuggy por. few w/ tarry dead stain, f.show clingy oil on break, mostly barren, weak odor, 4380

Predom Dolo- AA, 3 pcs w/ staining/showAA, 99% barren, w/ scat chert-tan-wht fresh sharp. weak odor 4390

Dolo- Wht-crm, m-xln, v. dense, w/ f-g pp-vuggy por. few cherty w/crm chert inclusions, few pcs w/ sl. SFO. G. SFO on break sl. odor. 4400

Dolo- Tan AA, 4410

Flood Dolo-gry, f.-xln, sl. dense, sl. chalky, w/ sl. inter-xln por., no odor, no flor. NS 4420

Flood Chert wht-crm, v. dense, fresh sharp, no vis por., no odor, NS 4030

AA 4040

Predom Chert crm-gry, wht v.dense, sl. chalky, no vis por. no odor, NS 4050

Predom Chert- wht-gry, v. dense fresh sharp, few Dolo, tan f.-xln dense, no vis por. no odor, NS 4060

Predom Chert-trans,wht w/ dolo-tan, f.xln, dense sl. glac, no vis por. no odor, NS 4480

Predom Chert wht-gry, v.dense, fresh sharp, w/ dolo-tan, f.-xln, dense, f. w/ f. iner-xln por. no odor NS 4490

Predom Chert-AA w/ Ls-crm-tan, micro-xln, sl. dense, no vis por. no odor NS 4500

Daily Cost: \$0  
Cum. Cost: \$13,908.74

CFS 4292  
Stop/20/40min

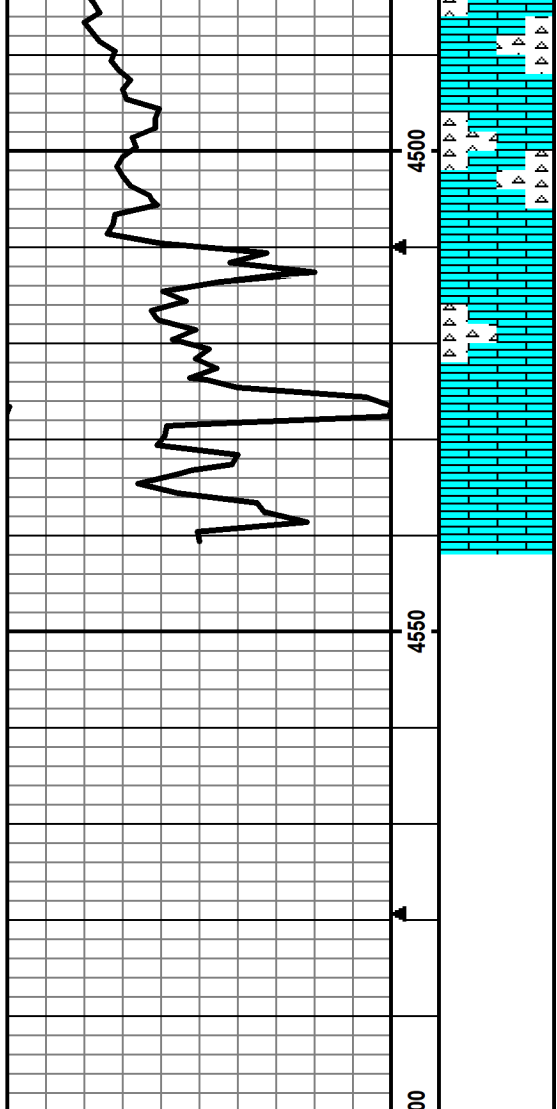
CFS 4312  
20/40min

DST #2  
Mississippian  
4,269'-4,312'  
45-60-60-90  
Rec:  
246' Gsy Oil  
(10%G 90%O)

IF: 33-71  
ISIP: 1151  
FF: 82-103  
FSIP: 1140  
HP 2061-2021

Mud-Co Mud Check #6  
9/4/22  
4,312 ft.  
Wt. 9.3  
Vis. 63  
LCM 2#  
Filt. 9.6 ml/30min  
3,500 ppm. Chloride

Daily Cost: \$776.54  
Cum. Cost: \$14,685.28



■ Ls- crm-tan, micro-xln, dense, few w/ tarry stain, sl.SFO on break w/ abun chert- wht-gry fresh sharp no vis por. no odor 4510

Flood Ls-crm, micro-xln, sl. dense, pyritic, no vis por. no odor NS 4520

Ls-crm-tan, micro-xln, sl. dense, sl.chalky, abun Chert wht-gry, fresh sharp, vis por. no odor NS 4530

Ls-crm, micro-xln, sl. dense, no vis por. no odor NS 4541

Ls AA 4541 30min

Ls-crm, micro-xln, sl.dense, sl. chalky, no vis por, no odor NS 4541 60min

CFS 4541 30/60min

RTD 4,541 ft 4:40 P.M. 9/4/2022

LTD 4,544 ft 1:00 A.M 9/5/2022

00

4550

4500



## DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating, Co**

1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206

ATTN: Garet Dinkel

### **Schaben #7**

#### **19-17s-24w Ness,KS**

Start Date: 2022.09.03 @ 03:47:00

End Date: 2022.09.03 @ 12:31:02

Job Ticket #: 68925                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.07 @ 11:42:34



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Grand Mesa Operating, Co  
1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206  
ATTN: Garet Dinkel

**19-17s-24w Ness,KS**

**Schaben #7**

Job Ticket: 68925

**DST#: 1**

Test Start: 2022.09.03 @ 03:47:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: 2372.00 ft (KB)

Time Tool Opened: 06:02:47

Time Test Ended: 12:31:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

**Interval: 4174.00 ft (KB) To 4233.00 ft (KB) (TVD)**

Reference Elevations: 2372.00 ft (KB)

Total Depth: 4233.00 ft (KB) (TVD)

2362.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8672**

**Inside**

Press@RunDepth: 69.89 psig @ 4176.00 ft (KB)

Capacity: psig

Start Date: 2022.09.03

End Date: 2022.09.03

Last Calib.: 2022.09.03

Start Time: 03:47:01

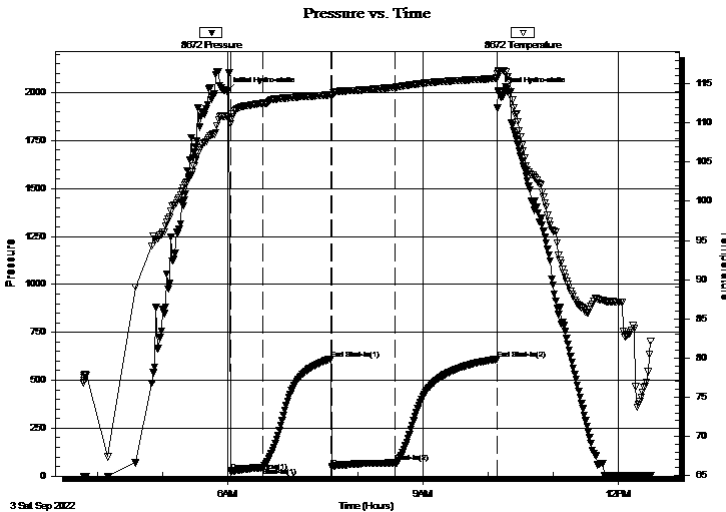
End Time: 12:31:02

Time On Btm: 2022.09.03 @ 05:59:02

Time Off Btm: 2022.09.03 @ 10:09:32

**TEST COMMENT:** IF: 30 min., BOB 25 inches, strong building blow, 13 inches  
IS: 60 min., no blow back  
FF: 60 min., BOB 13 min., strong building blow, 25 inches  
FS: 90 min., no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.02	110.82	Initial Hydro-static
4	23.99	110.37	Open To Flow (1)
33	45.11	112.51	Shut-In(1)
96	610.44	113.57	End Shut-In(1)
97	45.65	113.50	Open To Flow (2)
156	69.89	114.57	Shut-In(2)
249	610.08	115.73	End Shut-In(2)
251	2002.65	116.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gas cut oily mud 50%G,15%O,35%M	0.30
60.00	gas cut oily mud 5%G,5%O,90%M	0.30

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Grand Mesa Operating, Co  
1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206  
ATTN: Garet Dinkel

**19-17s-24w Ness, KS**

**Schaben #7**

Job Ticket: 68925

**DST#: 1**

Test Start: 2022.09.03 @ 03:47:00

## Tool Information

Drill Pipe:	Length: 4043.00 ft	Diameter: 3.80 inches	Volume: 56.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4174.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Isolator Sub	3.00			4157.00	
Jars	5.00			4162.00	
Safety Joint	3.00			4165.00	
Packer	5.00			4170.00	30.00 Bottom Of Top Packer
Packer	4.00			4174.00	
Stubb	1.00			4175.00	
Perforations	1.00			4176.00	
Recorder	0.00	8672	Inside	4176.00	
Recorder	0.00	6751	Outside	4176.00	
Pickup sub perf	5.00			4181.00	
Perforations	15.00			4196.00	
Change Over Sub	1.00			4197.00	
Drill Pipe	32.00			4229.00	
Change Over Sub	1.00			4230.00	
Bullnose	3.00			4233.00	59.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>89.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating, Co

**19-17s-24w Ness,KS**

1700 N Waterfront Pkw y  
BLDG 600  
Wichita, KS 67206  
ATTN: Garet Dinkel

**Schaben #7**

Job Ticket: 68925

**DST#: 1**

Test Start: 2022.09.03 @ 03:47:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 6.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gas cut oily mud 50%G,15%O,35%M	0.295
60.00	gas cut oily mud 5%G,5%O,90%M	0.295

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

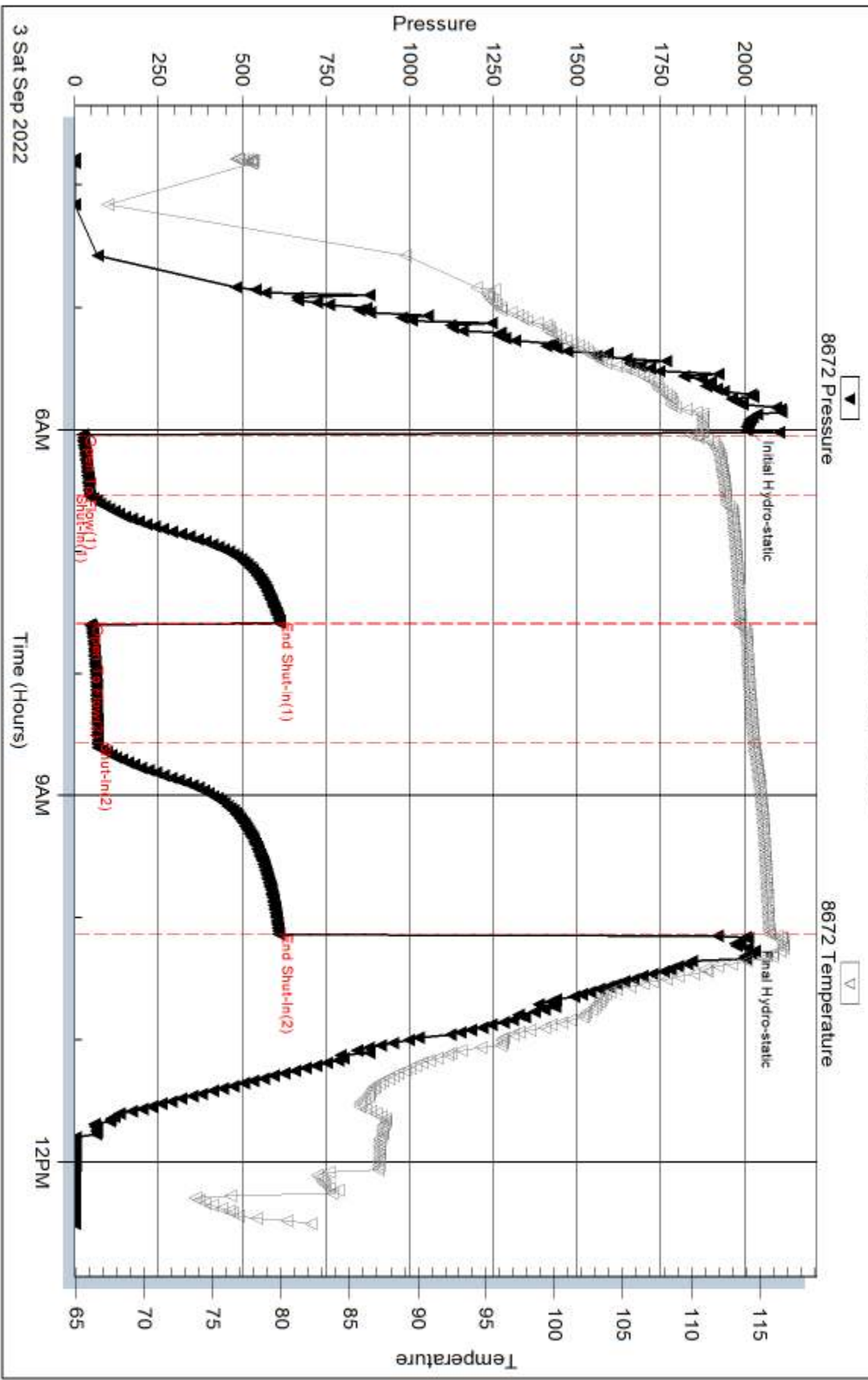
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 315' GIP

### Pressure vs. Time

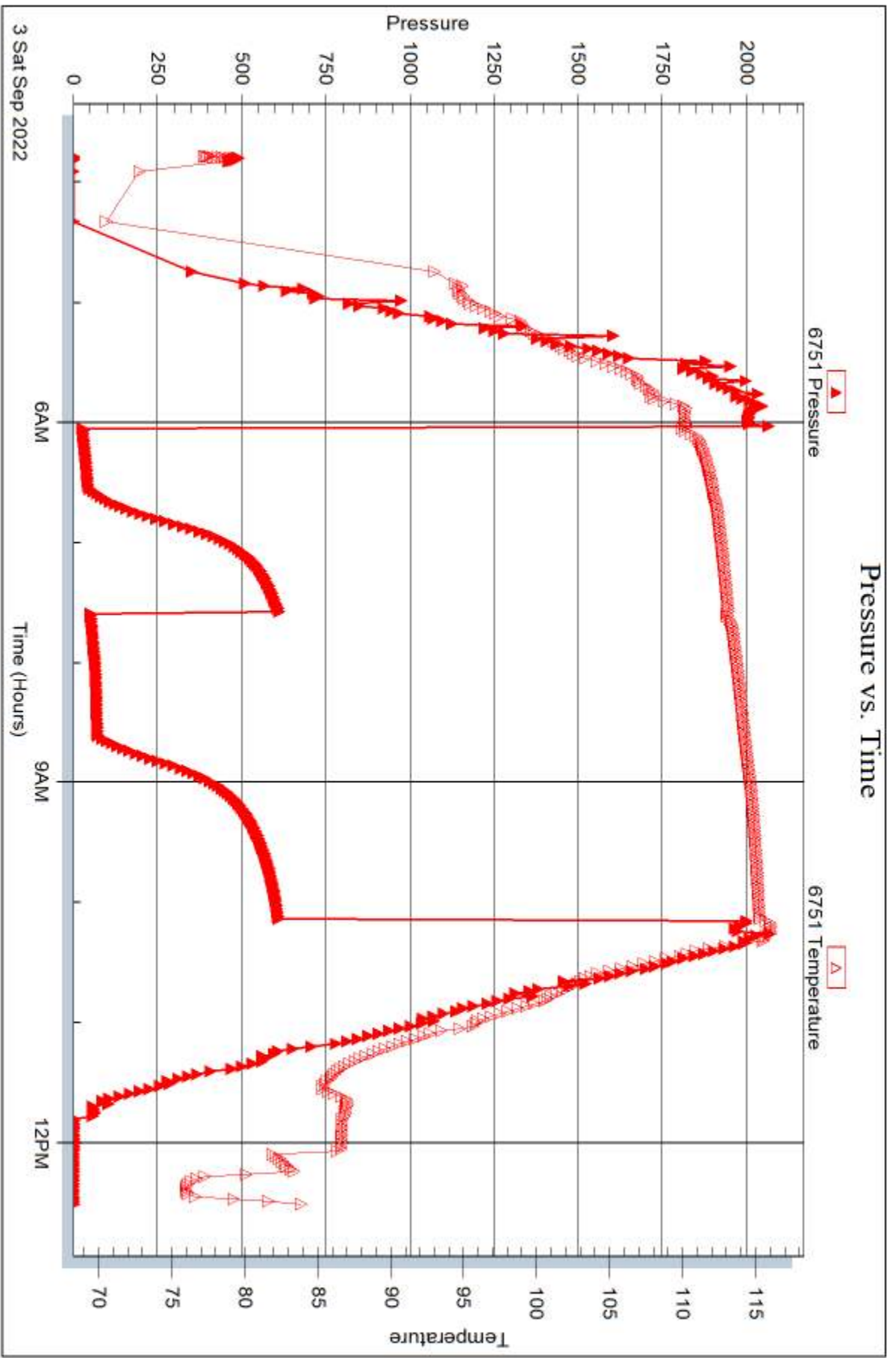


Serial #: 6751

Outside Grand Mesa Operating, Co

Schaben #7

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating, Co**

1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206

ATTN: Garet Dinkel

### **Schaben #7**

#### **19-17s-24w Ness,KS**

Start Date: 2022.09.03 @ 22:25:00

End Date: 2022.09.04 @ 08:00:47

Job Ticket #: 67896                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.09.07 @ 11:41:19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Grand Mesa Operating, Co

**19-17s-24w Ness,KS**

1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206  
ATTN: Garet Dinkel

**Schaben #7**

Job Ticket: 67896

**DST#: 2**

Test Start: 2022.09.03 @ 22:25:00

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: 2372.00 ft (KB)

Time Tool Opened: 00:39:47

Time Test Ended: 08:00:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

**Interval: 4269.00 ft (KB) To 4312.00 ft (KB) (TVD)**

Reference Elevations: 2372.00 ft (KB)

Total Depth: 4312.00 ft (KB) (TVD)

2362.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8672**

**Inside**

Press@RunDepth: 103.89 psig @ 4270.00 ft (KB)

Capacity: psig

Start Date: 2022.09.03

End Date:

2022.09.04

Last Calib.:

2022.09.03

Start Time: 22:25:01

End Time:

08:00:47

Time On Btm:

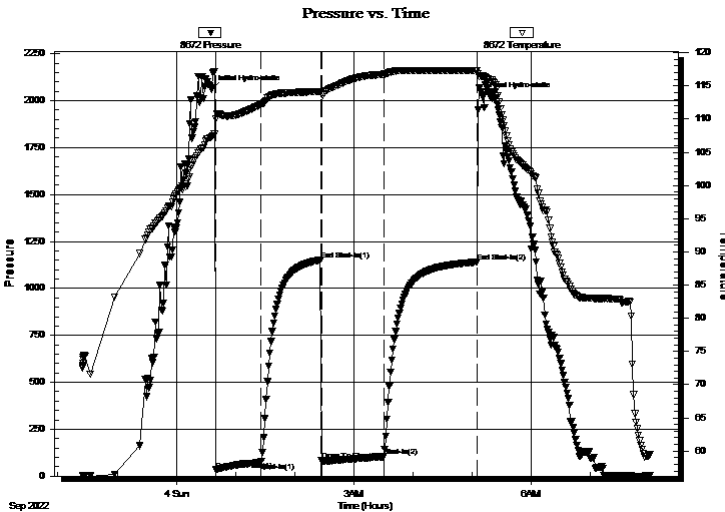
2022.09.04 @ 00:36:02

Time Off Btm:

2022.09.04 @ 05:10:32

**TEST COMMENT:** IF: 45 min., strong building blow , 9 inches  
IS: 60 min., no blow back  
FF: 60 min., strong building blow , 11 inches  
FS: 90 min., no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.20	107.34	Initial Hydro-static
4	33.37	109.96	Open To Flow (1)
50	71.97	112.19	Shut-In(1)
111	1151.31	114.12	End Shut-In(1)
111	82.37	113.77	Open To Flow (2)
174	103.89	116.75	Shut-In(2)
269	1140.67	117.31	End Shut-In(2)
275	2021.46	116.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
246.00	gassy oil 10%G,90%O	2.36

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Grand Mesa Operating, Co  
1700 N Waterfront Pkwy  
BLDG 600  
Wichita, KS 67206  
ATTN: Garet Dinkel

**19-17s-24w Ness,KS**

**Schaben #7**

Job Ticket: 67896

**DST#: 2**

Test Start: 2022.09.03 @ 22:25:00

## Tool Information

Drill Pipe:	Length: 4137.00 ft	Diameter: 3.80 inches	Volume: 58.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4269.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Isolator Sub	3.00			4252.00	
Jars	5.00			4257.00	
Safety Joint	3.00			4260.00	
Packer	5.00			4265.00	30.00 Bottom Of Top Packer
Packer	4.00			4269.00	
Stubb	1.00			4270.00	
Recorder	0.00	8672	Inside	4270.00	
Recorder	0.00	6751	Outside	4270.00	
Pickup sub perf	5.00			4275.00	
Change Over Sub	1.00			4276.00	
Drill Pipe	32.00			4308.00	
Change Over Sub	1.00			4309.00	
Bullnose	3.00			4312.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Grand Mesa Operating, Co

**19-17s-24w Ness,KS**

1700 N Waterfront Pkw y  
BLDG 600  
Wichita, KS 67206  
ATTN: Garet Dinkel

**Schaben #7**

Job Ticket: 67896

**DST#: 2**

Test Start: 2022.09.03 @ 22:25:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
246.00	gassy oil 10%G,90%O	2.358

Total Length: 246.00 ft      Total Volume: 2.358 bbl

Num Fluid Samples: 0

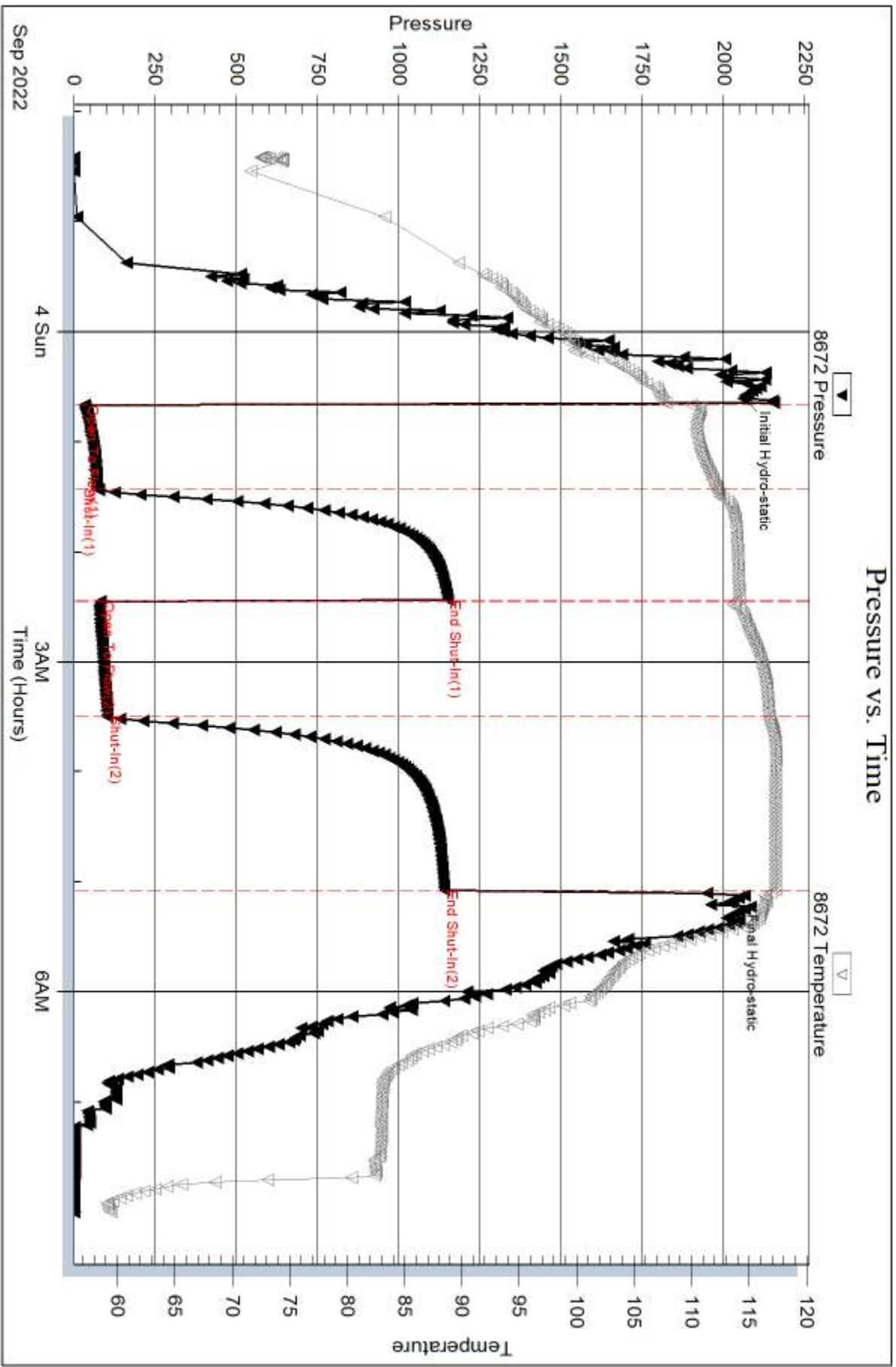
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=38@70F=37

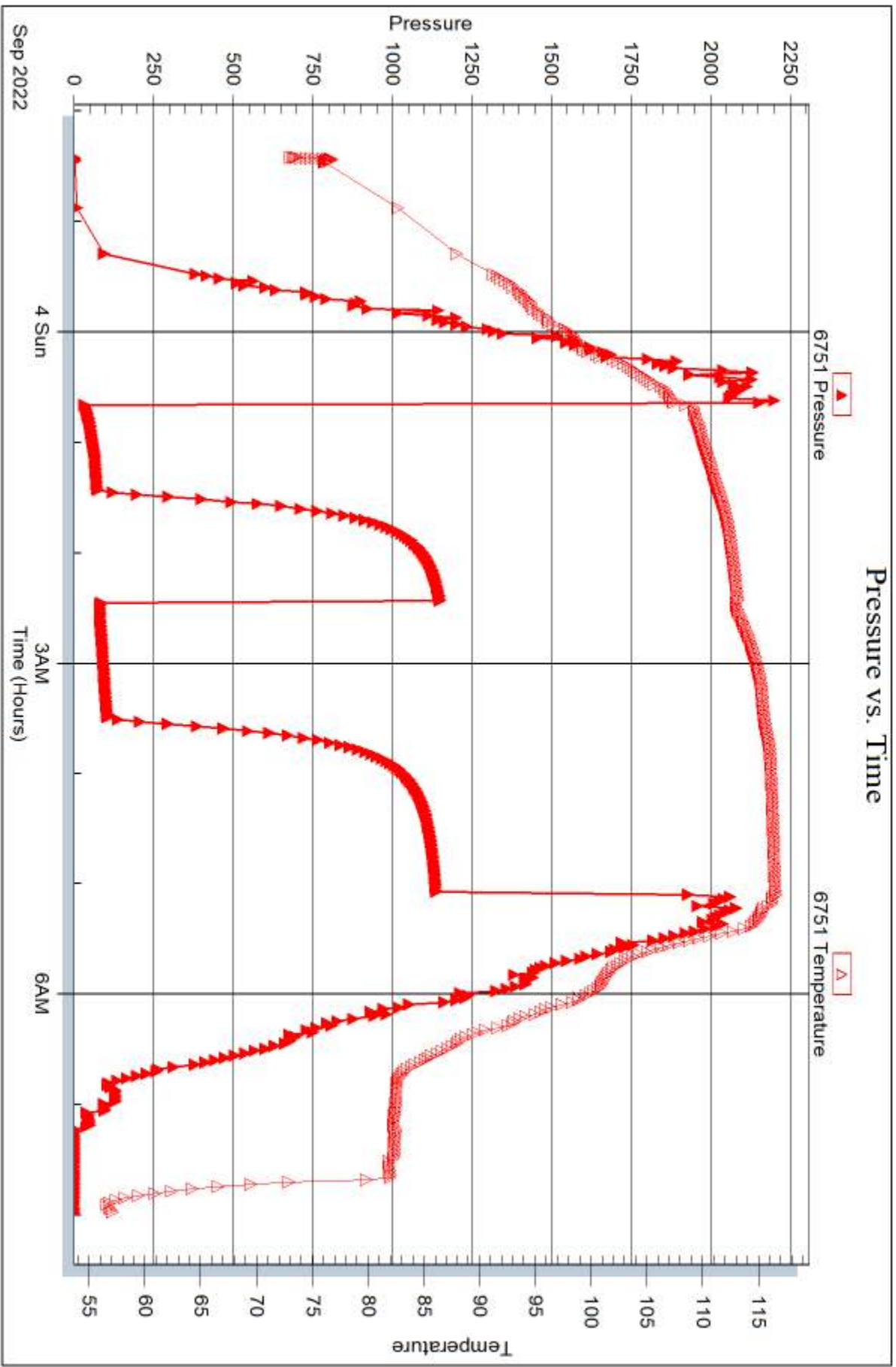


Serial #: 6751

Outside Grand Mesa Operating, Co

Schaben #7

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67896

Printed: 2022.09.07 @ 11:41:20



# TRIBBLE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68925

Well Name & No. Shawben 17 ~~Grand Mesa Operating Co~~ Test No. 1 Date 9-3-22  
 Company Grand Mesa Operating Co. Elevation 2372 KB 2362 GL  
 Address 1700 N Waterfront PKWP BLDG 600 Wichita, KS 67206  
 Co. Rep / Geo. Grant Dinkel Rig Pickrell #10  
 Location: Sec. 19 Twp 17 Rge. 24 Co. Wess State KS

Interval Tested 4174-4233 Zone Tested Fr. Scott  
 Anchor Length 59 Drill Pipe Run 4043 Mud Wt. 9.0  
 Top Packer Depth 4169 Drill Collars Run 120 Vis 56  
 Bottom Packer Depth 4174 Wt. Pipe Run N.A. WL 6.4  
 Total Depth 4233 Chlorides 3500 ppm System LCM 2<sup>nd</sup>

Blow Description IS: 30 min, BOB 25 min, Strong building blow, 13 inches  
IS: 60 min, no blow back  
FS: 60 min, BOB 13 min, strong building blow, 25 inches  
FS: 90 min, no blow back

Rec	Feet of	%gas	%oil	%water	%mud
60'	gas cut oily mud	50	15		35
60'	gas cut oily mud	5	5		90

Rec Total 120 BHT 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2007  Test conv. 1950 T-On Location 0245  
 (B) First Initial Flow 24  Jars 300 T-Started 0400  
 (C) First Final Flow 45  Safety Joint \_\_\_\_\_ T-Open 0600  
 (D) Initial Shut-In 610  Circ Sub \_\_\_\_\_ T-Pulled 1000  
 (E) Second Initial Flow 46  Hourly Standby \_\_\_\_\_ T-Out 1230  
 (F) Second Final Flow 70  Mileage x 120 (South City) 180 Comments lets @ 0347  
 (G) Final Shut-In 610  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2003  Straddle \_\_\_\_\_

Shale Packer X 1.0 250  EM Tool good  
 Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Sub Total 0  
 Sub Total 2680 Total 2680 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chris Hagen  
 Tribble Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-656-3947



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67896

Well Name & No. Schaben 17 Test No. 2 Date 09-03-22  
 Company Grand Mesa Operating, CO Elevation 2372 KB 2362 GL  
 Address 1700 N Waterfront PRWY BLDG 600 Wichita, KS 67206  
 Co. Rep / Geo. Garet Dinkel Rig Birknell #10  
 Location: Sec. 19 Twp 17 Rge. 24 Co. Ness State KS

Interval Tested 4269 - 4312 Zone Tested MISS.  
 Anchor Length 43' Drill Pipe Run 4137 Mud Wt. 9.2  
 Top Packer Depth 4264 Drill Collars Run 120 Vls 57  
 Bottom Packer Depth 4269 Wt. Pipe Run N.A. WL 17.2  
 Total Depth 4312 Chlorides 3,000 ppm System LCM 2<sup>nd</sup>

Blow Description IF: 45 min., strong building blow, 9 inches  
IS: 60 min., no blow back  
FP: 60 min., strong building blow, 11 inches  
FSB: 90 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>246</u>	<u>gassy oil</u>	<u>10</u>	<u>90</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 246 BHT 117 Gravity 37 API RW 38 @ 70 °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2061  Test CONV. 1950 T-On Location 2200  
 (B) First Initial Flow 33  Jars 300 T-Started 2230  
 (C) First Final Flow 72  Safety Joint \_\_\_\_\_ T-Open 0040  
 (D) Initial Shut-In 1151  Circ Sub \_\_\_\_\_ T-Pulled 0455  
 (E) Second Initial Flow 82  Hourly Standby \_\_\_\_\_ T-Out 0800  
 (F) Second Final Flow 104  Mileage K 20 (Ness) 180 Comments 6 hrs @ 2225  
 (G) Final Shut-In 1141  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2021  Straddle \_\_\_\_\_

Shale Packer K 1.0 250  EM Tool spiral  
 Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Sub Total 0  
 Sub Total 2680 Total 2680  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**ELI**  
WIRELINE SERVICES

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

FIELD TICKET No. - 6958

DATE 9/19/22  
UNIT # 3362

INVOICE NO.	P.O. NO.	AFE NO.
CUSTOMER <u>Grand Mesa Operating Co.</u>	LEASE <u>Schaben</u>	WELL NO. <u>7</u>
ADDRESS	FIELD	STATE <u>Ks.</u> COUNTY <u>Ness</u>
	LOCATION <u>19-17s-24w</u>	
CITY	CASING SIZE & WT. <u>5 1/2"</u>	TBG. SIZE
STATE	ZIP	TYPE OF JOB <u>GR CCL Bond &amp; Perf</u>

ORDERED BY	TITLE	SERVICE SUPV.			
PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
<u>70-210-1000</u>	<u>Service Charge</u>				
<u>70-214-0700</u>	<u>GR CCL Bond Log</u>				
	<u>Depth Change 0-4491</u>				
<u>70-212-0700</u>	<u>GR CCL Bond Log</u>				
	<u>Operations Charge 3300-4491</u>				
<u>75-805-0065</u>	<u>Perf 4" Slick Gun</u>				
	<u>4311-20 36 shots</u>				

CALLED OUT _____ Time _____ Date	ON LOCATION <u>8:30</u> Time <u>9/19/22</u> Date	COMPLETED <u>1:00</u> Time <u>9/19</u> 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>Gottschalk</u>	<u>7</u>	
<u>Fischer</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.

x Dan Gottschalk

x [Signature]  
CUSTOMER REPRESENTATIVE

White - Main    Canary - Customer    Pink - Field









# Pro-Stim Chemicals LLC

Date 9/20/22

## Acidizing Report

Customer <u>Grand Mesa</u>		Pro-Stim Chemical Yard <u>Dighton</u>		Pro-Stim Number <u>A26</u>	
Well Name & Number <u>Schaben #7</u>			Formation		
County <u>Ness</u>		State <u>KS</u>		Interval <u>4311-4320</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 checked="" type="checkbox"/>	Casing <input type="checkbox"/>	Annulus <input type="checkbox"/>	CTU <input type="checkbox"/>	Combination <input type="checkbox"/>
	Plug Depth			Packer Depth <u>4279</u>	
Casing Size: <u>5 1/2</u>	GRD	WT	Depth	Tubing Size: <u>2 7/8</u>	Spot <u>4331</u>
Casing Vol.	Tbg Vol	Ann Vol	OH Vol	Total Displacement	

500 7.5% MCA  
5 Ras-10

30 bbls 20% KCL Biocide

Customer Representative Signature \_\_\_\_\_

### Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
1	Acid	Spotted		3	BIBLS		Safety Meeting
11	Acid	3.0		6.5	0	0	Prs Test to _____ psi
14	Acid	3.0		11.0	0	0	
16	Acid	3.0		12.0	0	0	Acid Gone
20	Flush	3.0		16.0	0	0	
22	Flush	3.0		22.0	0	0	
23	Flush	3.0		24.9	0	0	Well Loaded
24	Flush	0		25.1	250	0	slow bleed
29	Flush	0		25.2	400	0	slow bleed
40	Flush	0		25.3	500	0	slow bleed
50	Flush	0		25.6	600	0	
55	Flush	.10		26	600	0	
60	Flush	.10		28	600	0	
80	Flush	.10		29.5	600	0	
100	Flush	.10		31	550	0	
110	Flush	.125		32	500	0	
120	Flush	.125		34	400	0	
130	Flush	.125		37	350	0	

### Treatment Synopsis

Avg Inj Rate	Fluid BPM <u>.15</u>	Total Injected		H2O <u>25</u>	Acid <u>12</u>	Oil
Treating Prs	Max <u>600</u>	Final <u>350</u>	Avg. <u>450</u>	ISIP <u>200</u>	<u>51 M/N</u>	10'SI
AR-CU					20	25
						30