

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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 <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

Date of first Production/Injection or Resumed Production/Injection:		Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	HAWKER 1
Doc ID	1526150

Tops

Name	Top	Datum
Anhydrite	818	1047
Grand Haven	2387	-522
Topeka	2737	-872
Heebner	2968	-1103
Toronto	2987	-1122
Lansing	3048	-1183
Base Kansas Ciy	3296	-1431
Conglomerate	3306	-1441
Arbuckle	3317	-1452

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	HAWKER 1
Doc ID	1526150

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	521	60/40	225	4%CC,2% gel



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

ATTN: Jim Musgrove

Hawker #1

27-15S-13W Russell,KS

Start Date: 2020.07.10 @ 18:49:00

End Date: 2020.07.11 @ 00:31:02

Job Ticket #: 66241 DST #: 1

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

Printed: 2020.07.16 @ 14:38:12



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66241

DST#: 1

ATTN: Jim Musgrove

Test Start: 2020.07.10 @ 18:49:00

GENERAL INFORMATION:

Formation: **Tarkio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:47

Time Test Ended: 00:31:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **2464.00 ft (KB) To 2524.00 ft (KB) (TVD)**

Total Depth: 2524.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 119.71 psig @ 2465.00 ft (KB)

Start Date: 2020.07.10

End Date:

2020.07.11

Start Time: 18:49:01

End Time:

00:31:02

Capacity: psig

Last Calib.: 2020.07.11

Time On Btm: 2020.07.10 @ 20:22:17

Time Off Btm: 2020.07.10 @ 22:56:02

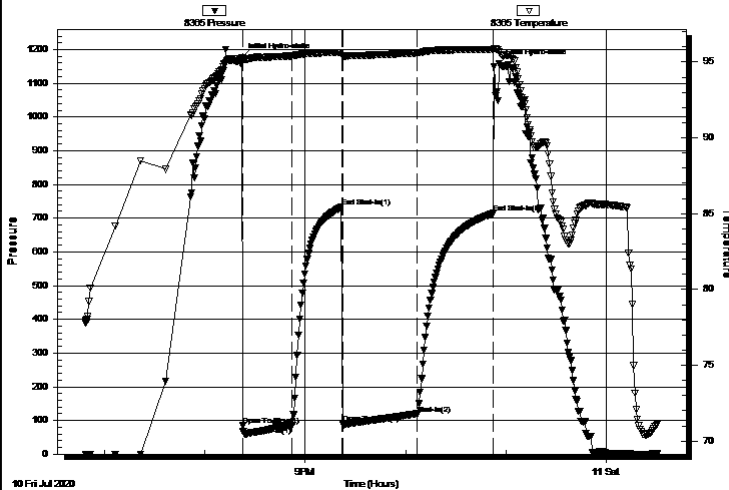
TEST COMMENT: IF 30 Minutes/ Slide 6 feet/ Blow to BOB in 11 minutes/ Total build 18"

ISI 30 Minutes/ No blow back

FF 45 Minutes/ Blow to BOB in 40 minutes/ Total build 14"

FSI 45 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1174.72	95.21	Initial Hydro-static
1	84.44	95.04	Open To Flow (1)
30	82.83	95.39	Shut-In(1)
60	732.90	95.59	End Shut-In(1)
60	90.46	95.37	Open To Flow (2)
105	119.71	95.59	Shut-In(2)
150	714.19	95.83	End Shut-In(2)
154	1157.96	95.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW/ M 25% W 75%	1.19
107.00	OSWM O 1% W 24% M 75%	1.50

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66241

DST#: 1

ATTN: Jim Musgrove

Test Start: 2020.07.10 @ 18:49:00

GENERAL INFORMATION:

Formation: **Tarkio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:47

Time Test Ended: 00:31:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **2464.00 ft (KB) To 2524.00 ft (KB) (TVD)**

Total Depth: 2524.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6755 Outside

Press@RunDepth: 711.48 psig @ 2466.00 ft (KB)

Start Date: 2020.07.10

End Date:

2020.07.11

Start Time: 18:49:01

End Time:

00:31:02

Capacity: psig

Last Calib.: 2020.07.11

Time On Btm: 2020.07.10 @ 20:22:17

Time Off Btm: 2020.07.10 @ 22:56:02

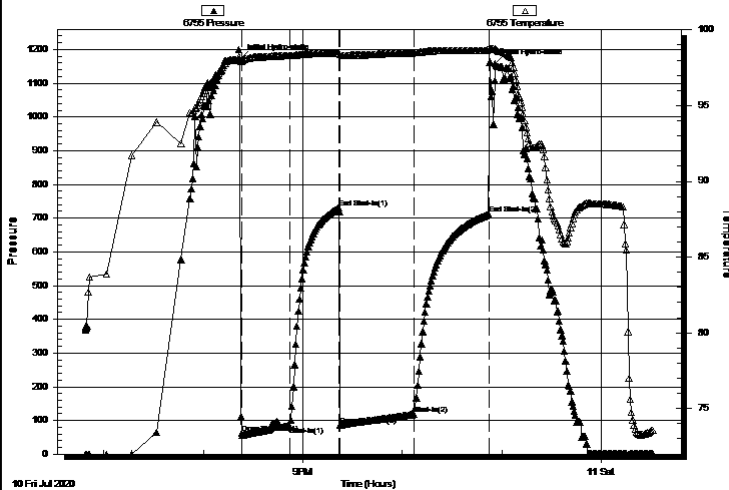
TEST COMMENT: IF 30 Minutes/ Slide 6 feet/ Blow to BOB in 11 minutes/ Total build 18"

ISI 30 Minutes/ No blow back

FF 45 Minutes/ Blow to BOB in 40 minutes/ Total build 14"

FSI 45 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1174.19	98.05	Initial Hydro-static
1	62.48	97.96	Open To Flow (1)
30	82.50	98.30	Shut-In(1)
60	729.77	98.45	End Shut-In(1)
61	86.58	98.36	Open To Flow (2)
105	118.00	98.48	Shut-In(2)
150	711.48	98.69	End Shut-In(2)
154	1159.07	98.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW/ M 25% W 75%	1.19
107.00	OSWM O 1% W 24% M 75%	1.50

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66241

DST#: 1

ATTN: Jim Musgrove

Test Start: 2020.07.10 @ 18:49:00

Tool Information

Drill Pipe:	Length: 2404.00 ft	Diameter: 3.80 inches	Volume: 33.72 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	34.02 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	2464.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.71 ft				
Tool Length:	79.71 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			2449.00	
Hydraulic tool	5.00			2454.00	
Top Packer	5.00			2459.00	
Packer	5.00			2464.00	20.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	2465.00	
Recorder	1.00	6755	Outside	2466.00	
Anchor	21.00			2487.00	
Change Over Sub	1.00			2488.00	
Drill Pipe	31.71			2519.71	
Change Over Sub	1.00			2520.71	
Bullnose	3.00			2523.71	59.71 Anchor Tool

Total Tool Length: 79.71



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66241

DST#: 1

ATTN: Jim Musgrove

Test Start: 2020.07.10 @ 18:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 5.98 in³

Resistivity: ohm.m

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 24000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW/ M 25% W 75%	1.193
107.00	OSWM/ O 1% W 24% M 75%	1.501

Total Length: 231.00 ft Total Volume: 2.694 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .258 ohms @ 75 deg.

Serial #: 8365

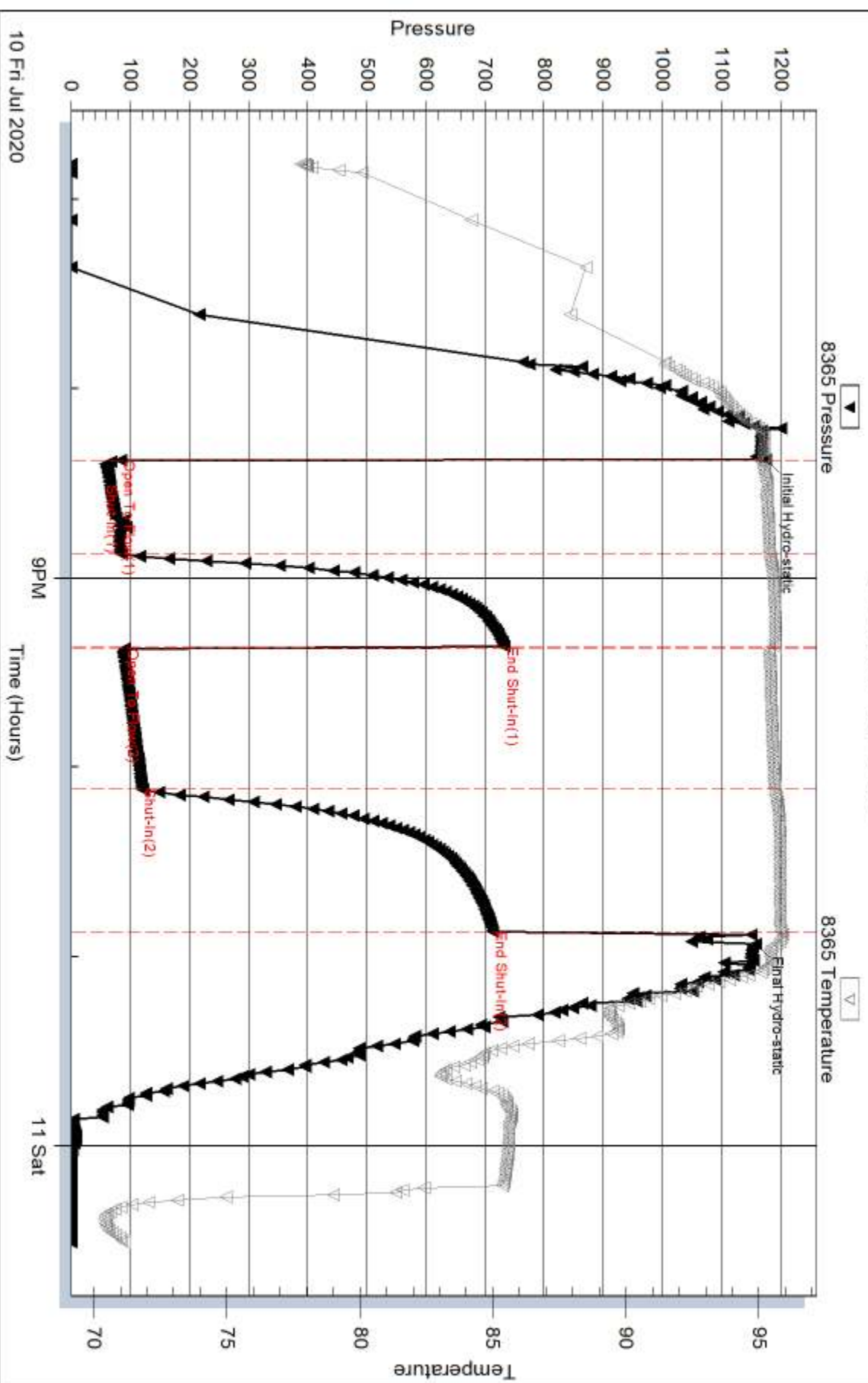
Inside

Mai Oil Operations Inc.

Hawker #1

DST Test Number: 1

Pressure vs. Time

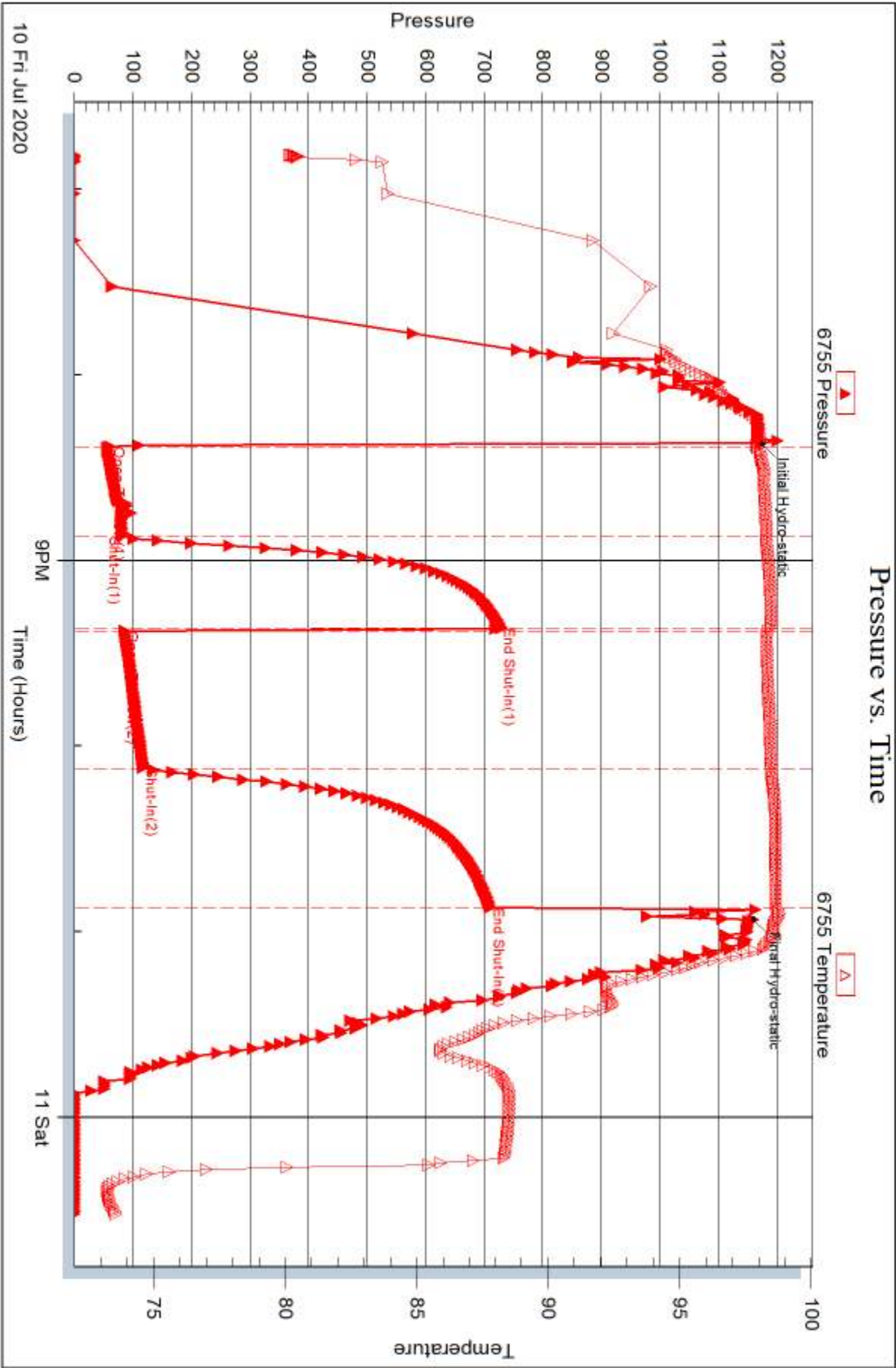


Serial #: 6755

Outside Mai Oil Operations Inc.

Header #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

ATTN: Jim Musgrove

Hawker #1

27-15S-13W Russell,KS

Start Date: 2020.07.12 @ 14:46:00

End Date: 2020.07.12 @ 20:20:02

Job Ticket #: 66242 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.07.16 @ 13:46:27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66242

DST#: 2

ATTN: Jim Musgrove

Test Start: 2020.07.12 @ 14:46:00

GENERAL INFORMATION:

Formation: **LKC A - E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:04:02

Time Test Ended: 20:20:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3051.00 ft (KB) To 3114.00 ft (KB) (TVD)

Total Depth: 3114.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 45.21 psig @ 3052.00 ft (KB)

Start Date: 2020.07.12

End Date:

2020.07.12

Start Time: 14:46:01

End Time:

20:20:02

Capacity: psig

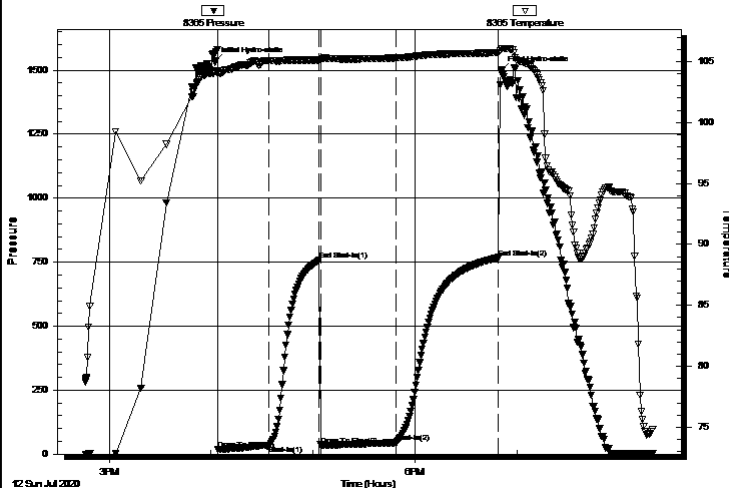
Last Calib.: 2020.07.12

Time On Btm: 2020.07.12 @ 16:02:17

Time Off Btm: 2020.07.12 @ 18:51:02

TEST COMMENT: IF 30 Minutes/ Blow built to 4"
ISI 30 Minutes/ No blow back
FF 45 Minutes/ Blow built to 5 1/2"
FSI 60 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.62	104.19	Initial Hydro-static
2	17.76	103.98	Open To Flow (1)
32	33.45	105.09	Shut-In(1)
62	757.66	105.10	End Shut-In(1)
62	36.23	105.08	Open To Flow (2)
107	45.21	105.29	Shut-In(2)
167	768.23	105.75	End Shut-In(2)
169	1497.16	106.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSWM / O 1% W 29% M 70%	0.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66242

DST#: 2

ATTN: Jim Musgrove

Test Start: 2020.07.12 @ 14:46:00

GENERAL INFORMATION:

Formation: **LKC A - E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:04:02

Time Test Ended: 20:20:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3051.00 ft (KB) To 3114.00 ft (KB) (TVD)

Total Depth: 3114.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6755 Outside

Press@RunDepth: 766.23 psig @ 3053.00 ft (KB)

Start Date: 2020.07.12

End Date:

2020.07.12

Start Time: 14:46:01

End Time:

20:20:02

Capacity: psig

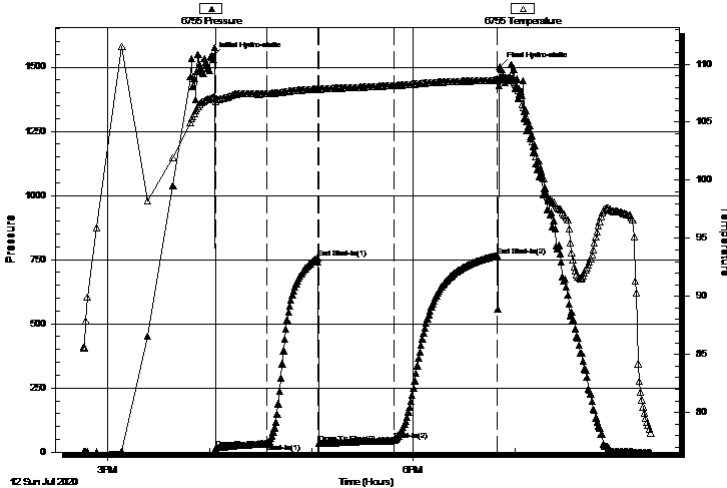
Last Calib.: 2020.07.12

Time On Btm: 2020.07.12 @ 16:01:47

Time Off Btm: 2020.07.12 @ 18:50:47

TEST COMMENT: IF 30 Minutes/ Blow built to 4"
ISI 30 Minutes/ No blow back
FF 45 Minutes/ Blow built to 5 1/2"
FSI 60 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1539.05	107.11	Initial Hydro-static
2	16.66	106.81	Open To Flow (1)
33	33.17	107.46	Shut-In (1)
62	755.61	107.83	End Shut-In (1)
63	35.54	107.78	Open To Flow (2)
107	45.56	108.17	Shut-In (2)
168	766.23	108.65	End Shut-In (2)
169	1500.51	108.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSWM / O 1% W 29% M 70%	0.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66242

DST#: 2

ATTN: Jim Musgrove

Test Start: 2020.07.12 @ 14:46:00

Tool Information

Drill Pipe:	Length:	3035.00 ft	Diameter:	3.80 inches	Volume:	42.57 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	46000.00 lb
					Total Volume:	42.57 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		4.00 ft					String Weight: Initial	42000.00 lb
Depth to Top Packer:		3051.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		62.78 ft						
Tool Length:		82.78 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00		3036.00	
Hydraulic tool	5.00		3041.00	
Top Packer	5.00		3046.00	
Packer	5.00		3051.00	20.00 Bottom Of Top Packer
Recorder	1.00	8365 Inside	3052.00	
Recorder	1.00	6755 Outside	3053.00	
Anchor	24.00		3077.00	
Change Over Sub	1.00		3078.00	
Drill Pipe	31.78		3109.78	
Change Over Sub	1.00		3110.78	
Bullnose	3.00		3113.78	62.78 Anchor Tool

Total Tool Length: 82.78



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66242

DST#: 2

ATTN: Jim Musgrove

Test Start: 2020.07.12 @ 14:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 5900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 19000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OSWM / O 1% W 29% M 70%	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .298 ohms @ 81 deg.

Serial #: 8365

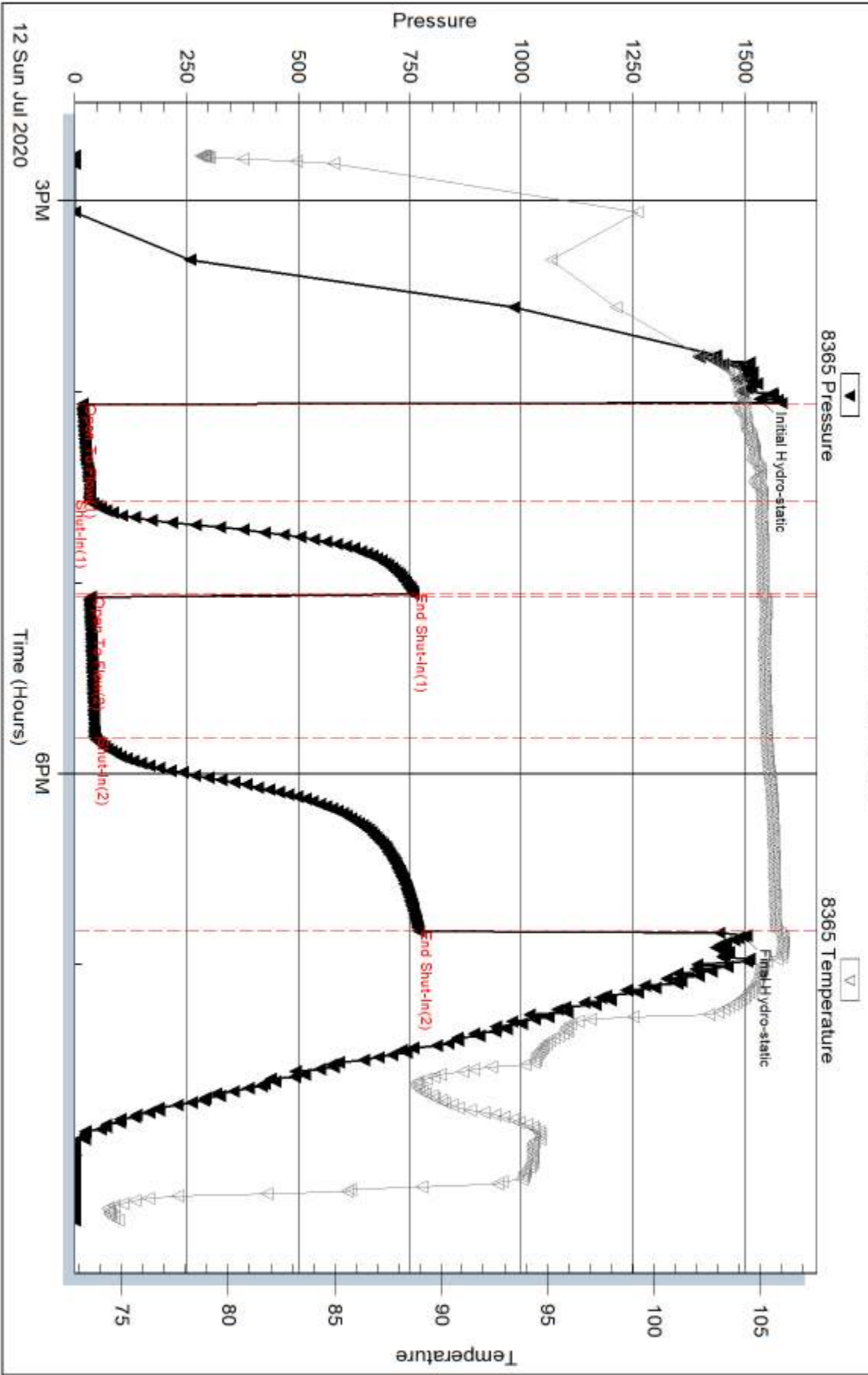
Inside

Mai Oil Operations Inc.

Hawker #1

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 66242

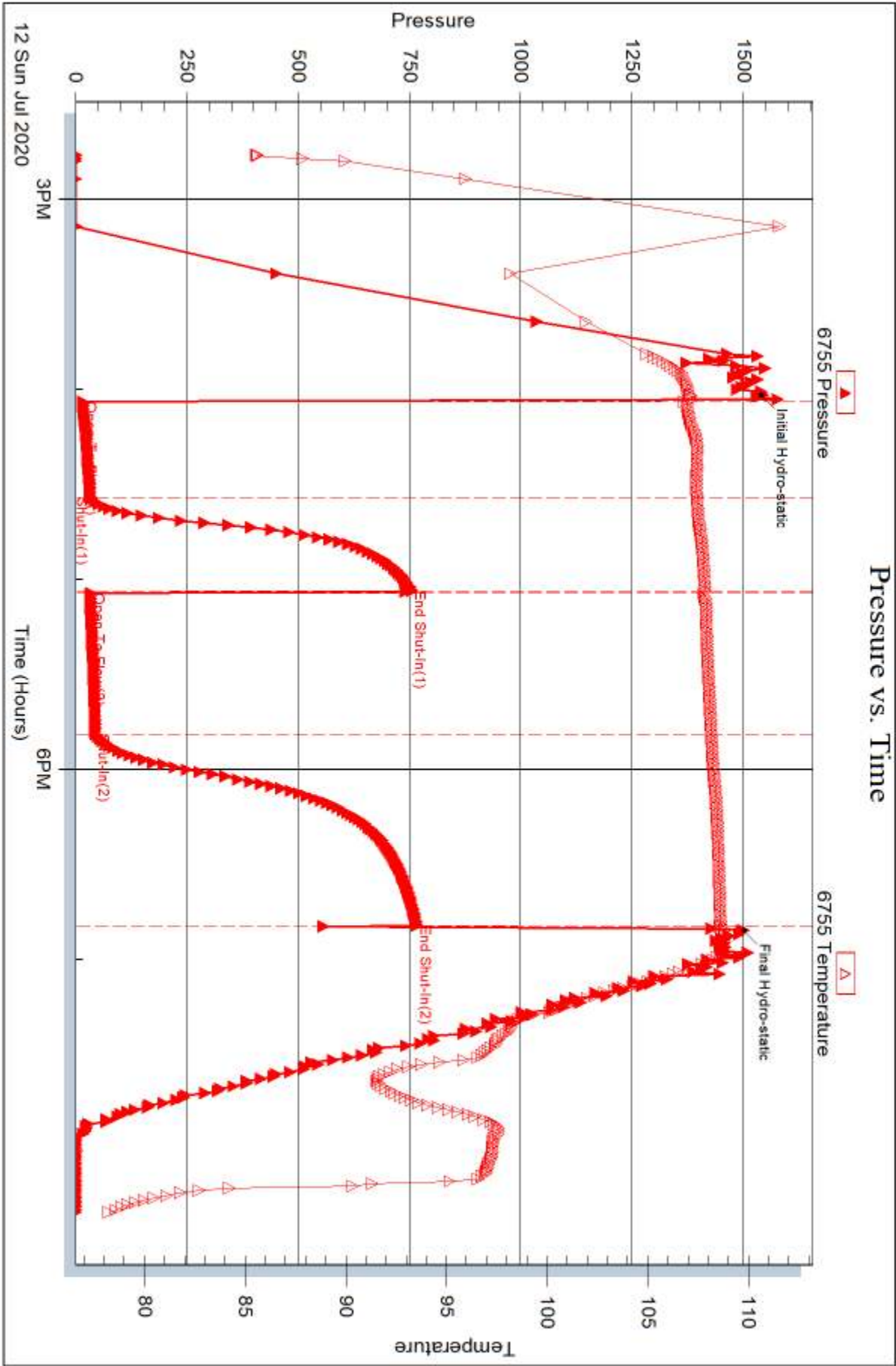
Printed: 2020.07.16 @ 13:46:28

Serial #: 6755

Outside Mai Oil Operations Inc.

Hawker #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

ATTN: Jim Musgrove

Hawker #1

27-15S-13W Russell,KS

Start Date: 2020.07.13 @ 02:48:00

End Date: 2020.07.13 @ 08:30:02

Job Ticket #: 66243 DST #: 3

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

Printed: 2020.07.16 @ 13:42:34



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66243

DST#: 3

ATTN: Jim Musgrove

Test Start: 2020.07.13 @ 02:48:00

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:12:32

Time Test Ended: 08:30:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3117.00 ft (KB) To 3141.00 ft (KB) (TVD)

Total Depth: 3141.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 28.88 psig @ 3118.00 ft (KB)

Start Date: 2020.07.13

End Date:

2020.07.13

Start Time: 02:48:01

End Time:

08:30:02

Capacity: psig

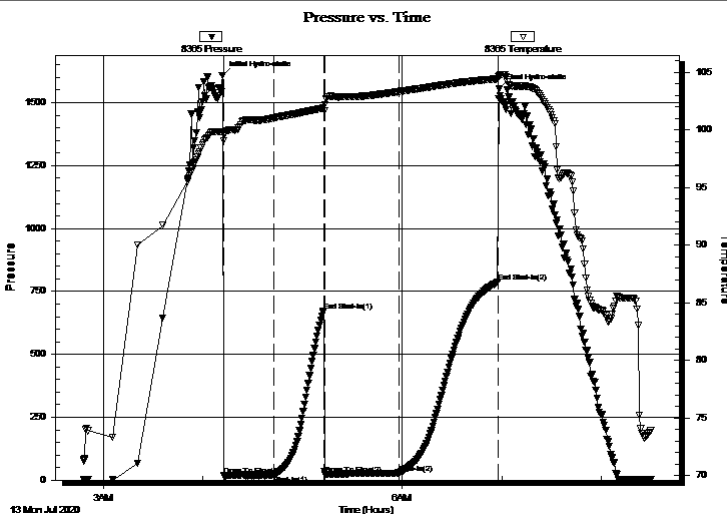
Last Calib.: 2020.07.13

Time On Btm: 2020.07.13 @ 04:11:47

Time Off Btm: 2020.07.13 @ 06:58:17

TEST COMMENT: IF 30 Minutes/ Blow built to 3 1/2 inches
ISI 30 Minutes/ No blow back
FF 45 Minutes/ Blow built to 6 inches
FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.74	99.82	Initial Hydro-static
1	17.10	99.56	Open To Flow (1)
31	20.82	101.03	Shut-In (1)
61	673.10	101.92	End Shut-In (1)
62	21.46	102.22	Open To Flow (2)
107	28.88	103.33	Shut-In (2)
166	787.32	104.48	End Shut-In (2)
167	1554.20	104.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GV/SOCM/ O 5% G 5% M 90%	0.49
0.00	25 feet GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66243

DST#: 3

ATTN: Jim Musgrove

Test Start: 2020.07.13 @ 02:48:00

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:12:32

Time Test Ended: 08:30:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **3117.00 ft (KB) To 3141.00 ft (KB) (TVD)**

Total Depth: 3141.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6755 Outside

Press@RunDepth: 786.42 psig @ 3119.00 ft (KB)

Start Date: 2020.07.13

End Date:

2020.07.13

Start Time: 02:48:01

End Time:

08:30:02

Capacity: psig

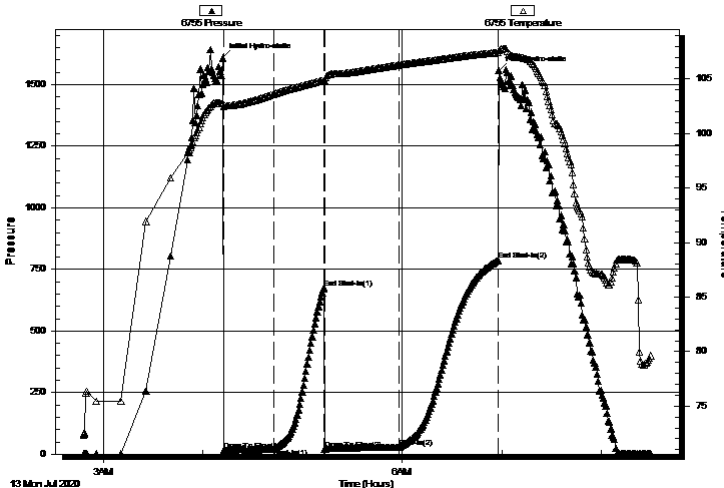
Last Calib.: 2020.07.13

Time On Btm: 2020.07.13 @ 04:11:47

Time Off Btm: 2020.07.13 @ 06:58:17

TEST COMMENT: IF 30 Minutes/ Blow built to 3 1/2 inches
ISI 30 Minutes/ No blow back
FF 45 Minutes/ Blow built to 6 inches
FSI 60 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.99	102.74	Initial Hydro-static
1	15.59	102.45	Open To Flow (1)
31	21.94	103.62	Shut-In (1)
61	675.95	104.89	End Shut-In (1)
62	20.78	104.84	Open To Flow (2)
106	28.65	106.27	Shut-In (2)
166	786.42	107.47	End Shut-In (2)
167	1557.90	107.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GV/SOCW O 5% G 5% M 90%	0.49
0.00	25 feet GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66243

DST#: 3

ATTN: Jim Musgrove

Test Start: 2020.07.13 @ 02:48:00

Tool Information

Drill Pipe:	Length: 3128.00 ft	Diameter: 3.80 inches	Volume: 43.88 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume:	43.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3117.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3102.00	
Hydraulic tool	5.00			3107.00	
Top Packer	5.00			3112.00	
Packer	5.00			3117.00	20.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3118.00	
Recorder	1.00	6755	Outside	3119.00	
Anchor	19.00			3138.00	
Bullnose	3.00			3141.00	24.00 Anchor Tool

Total Tool Length: 44.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66243

DST#: 3

ATTN: Jim Musgrove

Test Start: 2020.07.13 @ 02:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 5900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	GVSOCLW O 5% G 5% M 90%	0.491
0.00	25 feet GIP	0.000

Total Length: 35.00 ft

Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

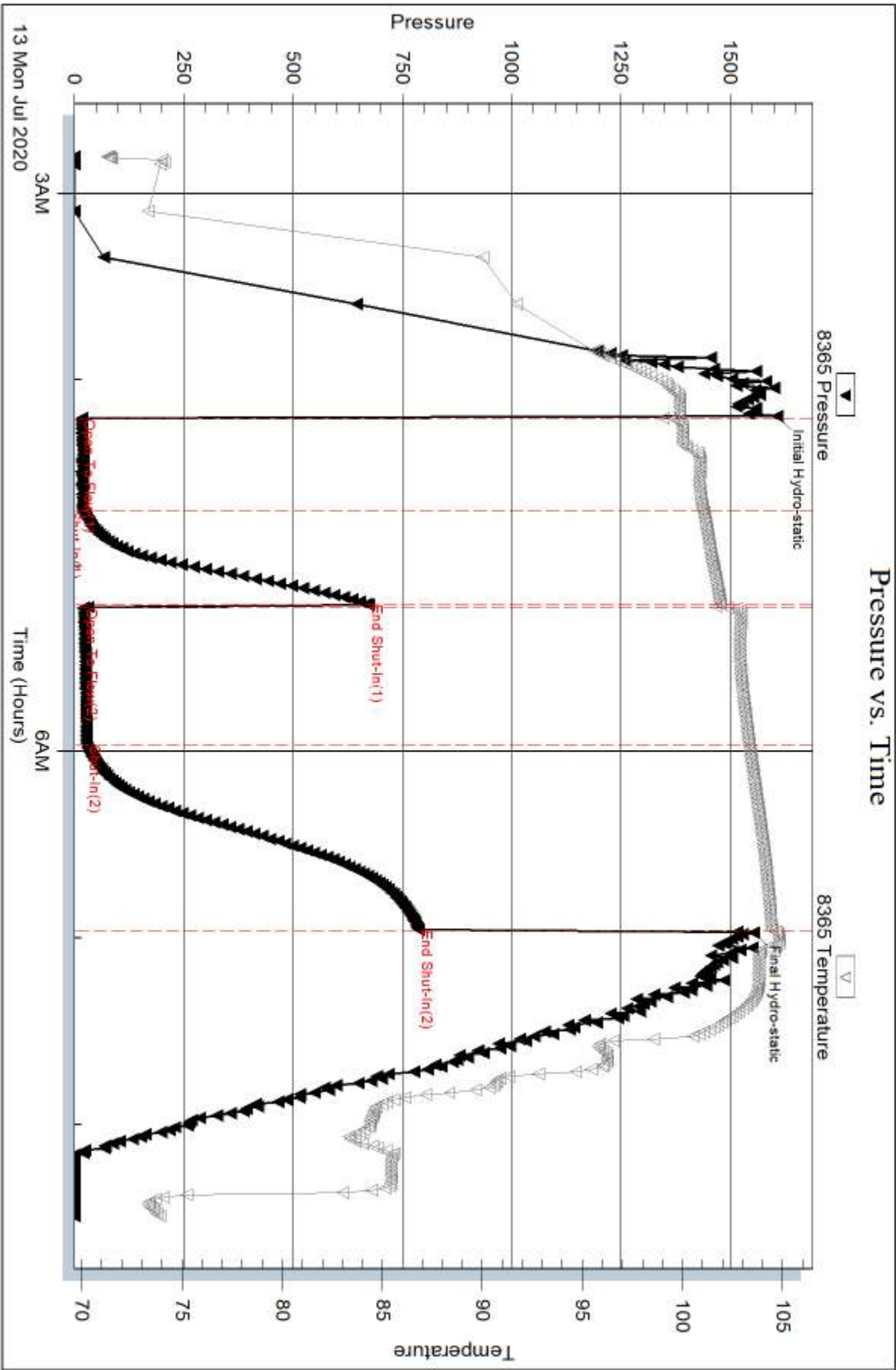
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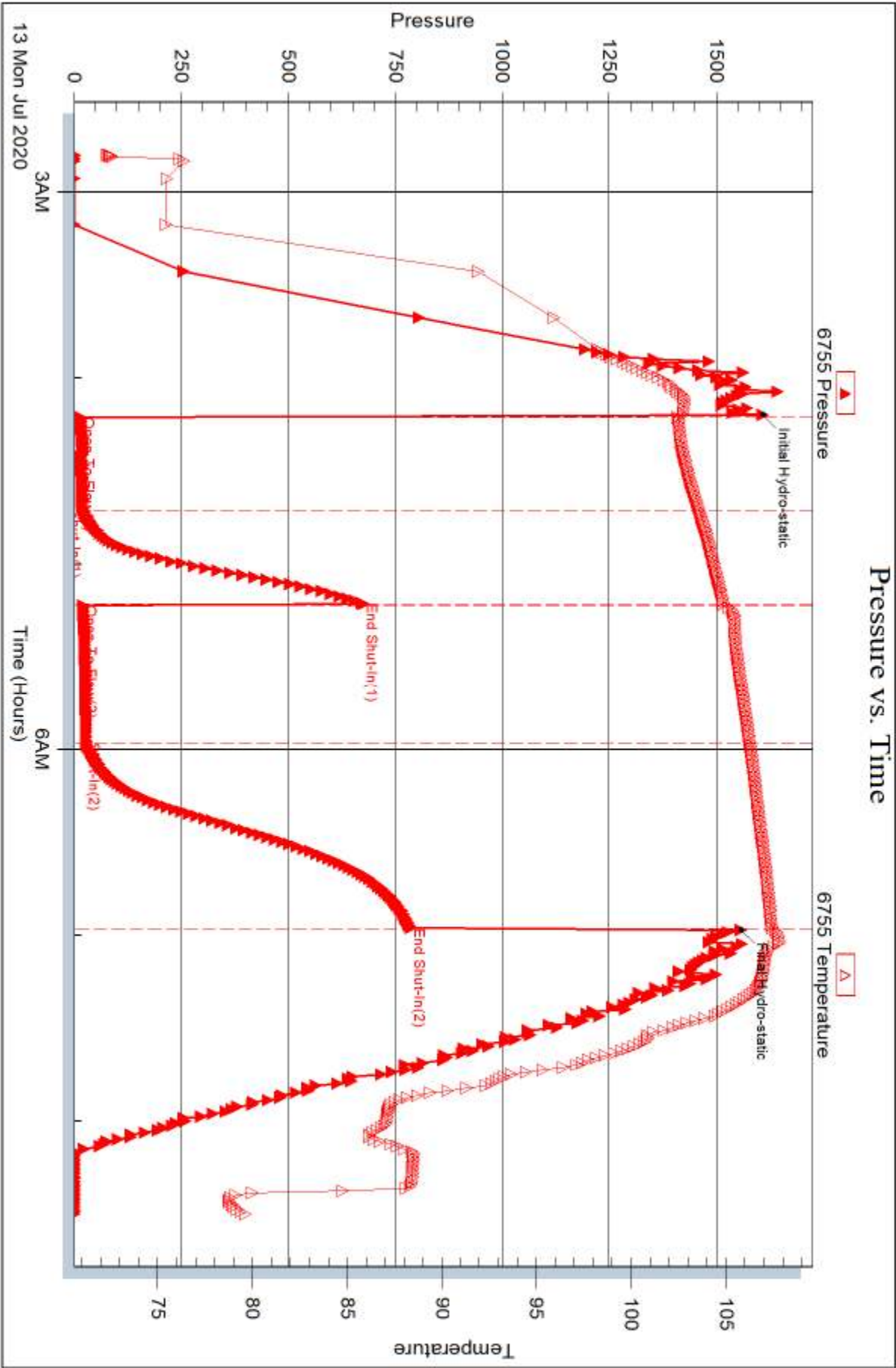
Inside

Mai Oil Operations Inc.

Hawker #1

DST Test Number: 3







DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

ATTN: Jim Musgrove

Hawker #1

27-15S-13W Russell,KS

Start Date: 2020.07.14 @ 03:36:00

End Date: 2020.07.14 @ 08:44:02

Job Ticket #: 66244 DST #: 4

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

Printed: 2020.07.16 @ 13:40:00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66244

DST#: 4

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 03:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:17:32

Time Test Ended: 08:44:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **3288.00 ft (KB) To 3322.00 ft (KB) (TVD)**

Total Depth: 3322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 29.80 psig @ 3289.00 ft (KB)

Start Date: 2020.07.14

End Date:

2020.07.14

Start Time: 03:36:01

End Time:

08:44:02

Capacity: psig

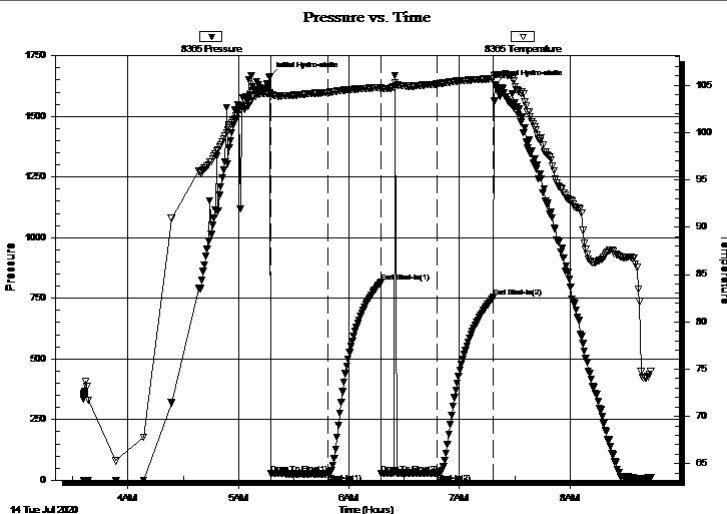
Last Calib.: 2020.07.14

Time On Btm: 2020.07.14 @ 05:17:02

Time Off Btm: 2020.07.14 @ 07:19:17

TEST COMMENT: IF 30 Minutes/ Blow built to 1/2"
ISI 30 Minutes/ No blow back
FF 30 Minutes/ Dead no blow / Flush tool no help
FSI 30 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.01	104.22	Initial Hydro-static
1	28.37	103.83	Open To Flow (1)
32	26.79	104.24	Shut-In(1)
61	815.84	104.76	End Shut-In(1)
61	28.86	104.54	Open To Flow (2)
91	29.80	105.14	Shut-In(2)
122	753.42	105.75	End Shut-In(2)
123	1630.81	106.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM/ O 1% M99%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66244

DST#: 4

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 03:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:17:32

Time Test Ended: 08:44:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3288.00 ft (KB) To 3322.00 ft (KB) (TVD)

Total Depth: 3322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3379.00 ft (KB)

3370.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6755 Outside

Press@RunDepth: 760.56 psig @ 3290.00 ft (KB)

Start Date: 2020.07.14

End Date:

2020.07.14

Start Time: 03:36:01

End Time:

08:44:02

Capacity: psig

Last Calib.: 2020.07.14

Time On Btm: 2020.07.14 @ 05:17:17

Time Off Btm: 2020.07.14 @ 07:19:17

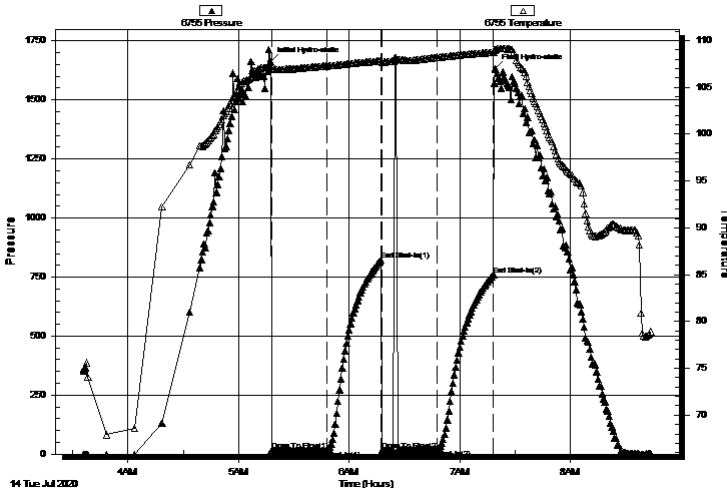
TEST COMMENT: IF 30 Minutes/ Blow built to 1/2"

ISI 30 Minutes/ No blow back

FF 30 Minutes/ Dead no blow / Flush tool no help

FSI 30 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.64	107.19	Initial Hydro-static
1	14.85	107.00	Open To Flow (1)
31	15.28	107.28	Shut-In(1)
60	822.06	107.78	End Shut-In(1)
61	17.34	107.71	Open To Flow (2)
91	18.84	108.19	Shut-In(2)
121	760.56	108.76	End Shut-In(2)
122	1631.64	109.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM / O 1% M 99%	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66244

DST#: 4

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 03:36:00

Tool Information

Drill Pipe:	Length:	3286.00 ft	Diameter:	3.80 inches	Volume:	46.09 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	48000.00 lb
					<u>Total Volume:</u>	<u>46.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	44000.00 lb
Depth to Top Packer:		3288.00 ft					Final	44000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		34.00 ft						
Tool Length:		54.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments: Ruined Packer

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00		3273.00	
Hydraulic tool	5.00		3278.00	
Top Packer	5.00		3283.00	
Packer	5.00		3288.00	20.00 Bottom Of Top Packer
Recorder	1.00	8365 Inside	3289.00	
Recorder	1.00	6755 Outside	3290.00	
Anchor	29.00		3319.00	
Bullnose	3.00		3322.00	34.00 Anchor Tool

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66244

DST#: 4

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 03:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 11.17 in³

Resistivity: ohm.m

Salinity: 7900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM / O 1% M99%	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

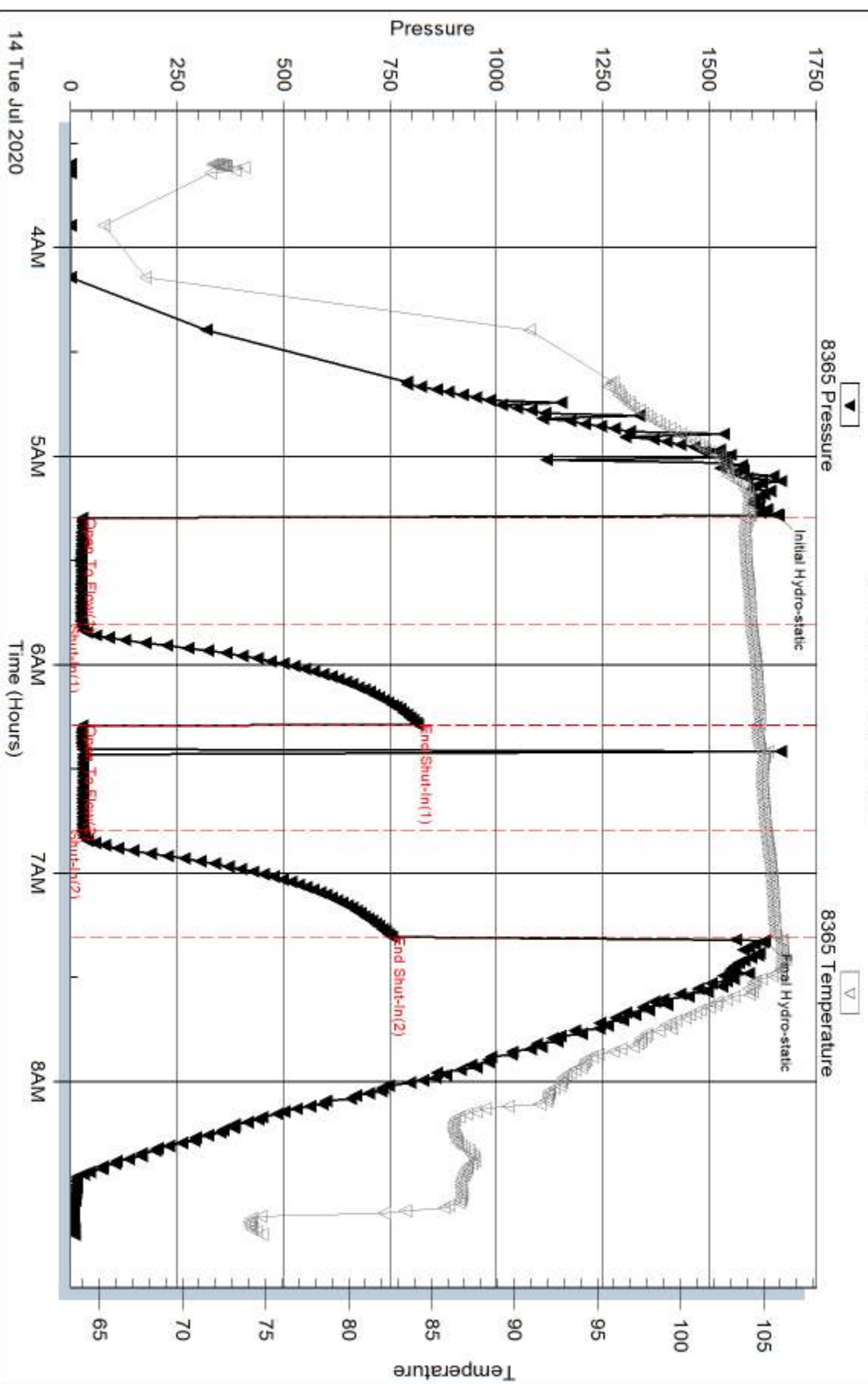
Inside

Mai Oil Operations Inc.

Hawker #1

DST Test Number: 4

Pressure vs. Time

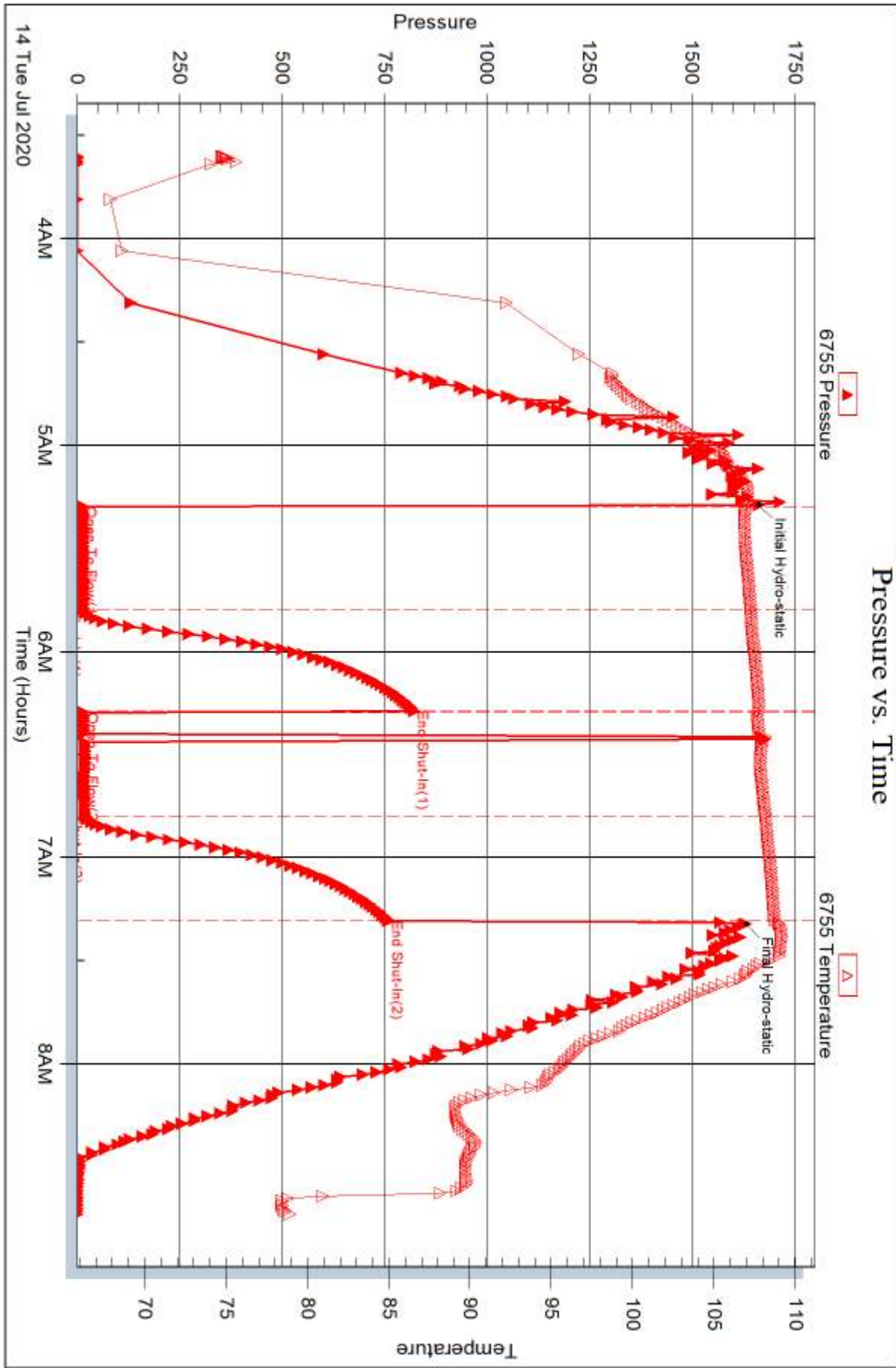


Serial #: 6755

Outside Mai Oil Operations Inc.

Hawker #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

ATTN: Jim Musgrove

Hawker #1

27-15S-13W Russell,KS

Start Date: 2020.07.14 @ 18:40:00

End Date: 2020.07.15 @ 01:02:02

Job Ticket #: 66245 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.07.16 @ 13:38:40



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66245

DST#: 5

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 18:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:32

Time Test Ended: 01:02:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3289.00 ft (KB) To 3337.00 ft (KB) (TVD)

Reference Elevations: 3379.00 ft (KB)

Total Depth: 3337.00 ft (KB) (TVD)

3370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 101.28 psig @ 3290.00 ft (KB)

Capacity: psig

Start Date: 2020.07.14

End Date:

2020.07.15

Last Calib.: 2020.07.15

Start Time: 18:40:01

End Time:

01:02:02

Time On Btm: 2020.07.14 @ 19:54:02

Time Off Btm: 2020.07.14 @ 22:56:17

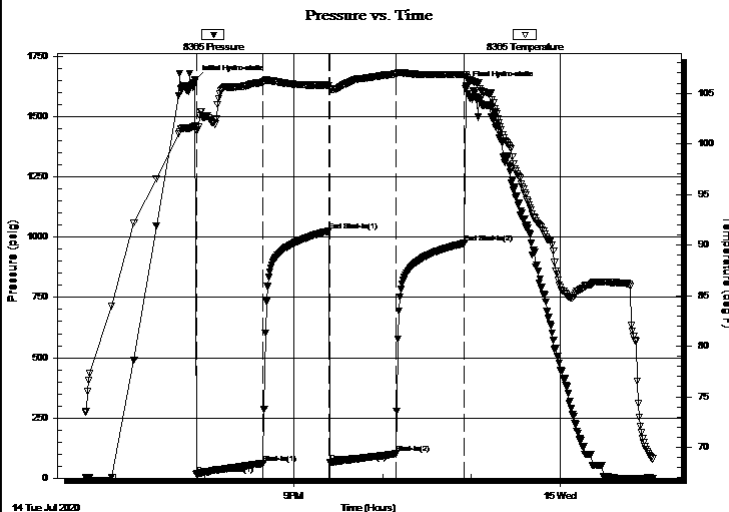
TEST COMMENT: IF 45 Minutes/ Blow built to BOB in 39 minutes/ Total build 13"

ISI 45 Minutes/ No blow back

FF 45 Minutes/ Blow built to 10"

FSI 45 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.09	101.77	Initial Hydro-static
1	16.48	101.33	Open To Flow (1)
46	61.44	106.10	Shut-In(1)
90	1025.44	105.76	End Shut-In(1)
91	63.97	105.41	Open To Flow (2)
135	101.28	106.91	Shut-In(2)
182	975.56	106.82	End Shut-In(2)
183	1627.50	106.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
186.00	SOCWM/ O 10% W 30% M 60%	2.61

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66245

DST#: 5

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 18:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:32

Time Test Ended: 01:02:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3289.00 ft (KB) To 3337.00 ft (KB) (TVD)

Reference Elevations: 3379.00 ft (KB)

Total Depth: 3337.00 ft (KB) (TVD)

3370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6755 Outside

Press@RunDepth: 973.60 psig @ 3291.00 ft (KB)

Capacity: psig

Start Date: 2020.07.14

End Date:

2020.07.15

Last Calib.: 2020.07.15

Start Time: 18:40:01

End Time:

01:02:02

Time On Btm: 2020.07.14 @ 19:54:17

Time Off Btm: 2020.07.14 @ 22:56:17

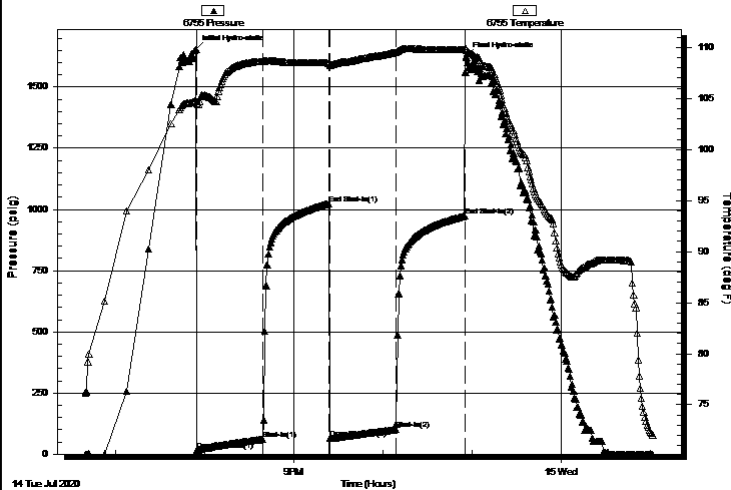
TEST COMMENT: IF 45 Minutes/ Blow built to BOB in 39 minutes/ Total build 13"

ISI 45 Minutes/ No blow back

FF 45 Minutes/ Blow built to 10"

FSI 45 Minutes/ No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.16	104.79	Initial Hydro-static
1	16.06	104.54	Open To Flow (1)
46	61.63	108.64	Shut-In(1)
90	1023.58	108.47	End Shut-In(1)
91	63.51	108.31	Open To Flow (2)
135	100.93	109.53	Shut-In(2)
181	973.60	109.82	End Shut-In(2)
182	1623.61	109.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
186.00	SOCWM/ O 10% W 30% M 60%	2.61

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66245

DST#: 5

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 18:40:00

Tool Information

Drill Pipe:	Length:	3286.00 ft	Diameter:	3.80 inches	Volume:	46.09 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	46.09 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		17.00 ft					String Weight: Initial	44000.00 lb
Depth to Top Packer:		3289.00 ft					Final	45000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		47.91 ft						
Tool Length:		67.91 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00		3274.00	
Hydraulic tool	5.00		3279.00	
Top Packer	5.00		3284.00	
Packer	5.00		3289.00	20.00 Bottom Of Top Packer
Recorder	1.00	8365 Inside	3290.00	
Recorder	1.00	6755 Outside	3291.00	
Anchor	9.00		3300.00	
Change Over Sub	1.00		3301.00	
Drill Pipe	31.91		3332.91	
Change Over Sub	1.00		3333.91	
Bullnose	3.00		3336.91	47.91 Anchor Tool

Total Tool Length: 67.91



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

27-15S-13W Russell,KS

8411 Preston Rd Suite 800
Dallas, TX 75225+2250

Hawker #1

Job Ticket: 66245

DST#: 5

ATTN: Jim Musgrove

Test Start: 2020.07.14 @ 18:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 6900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

35 deg API

Water Salinity:

18000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Clean Oil	0.070
186.00	SOCWM / O 10% W 30% M 60%	2.609

Total Length: 191.00 ft Total Volume: 2.679 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .351 ohms @ 73 deg.

Serial #: 8365

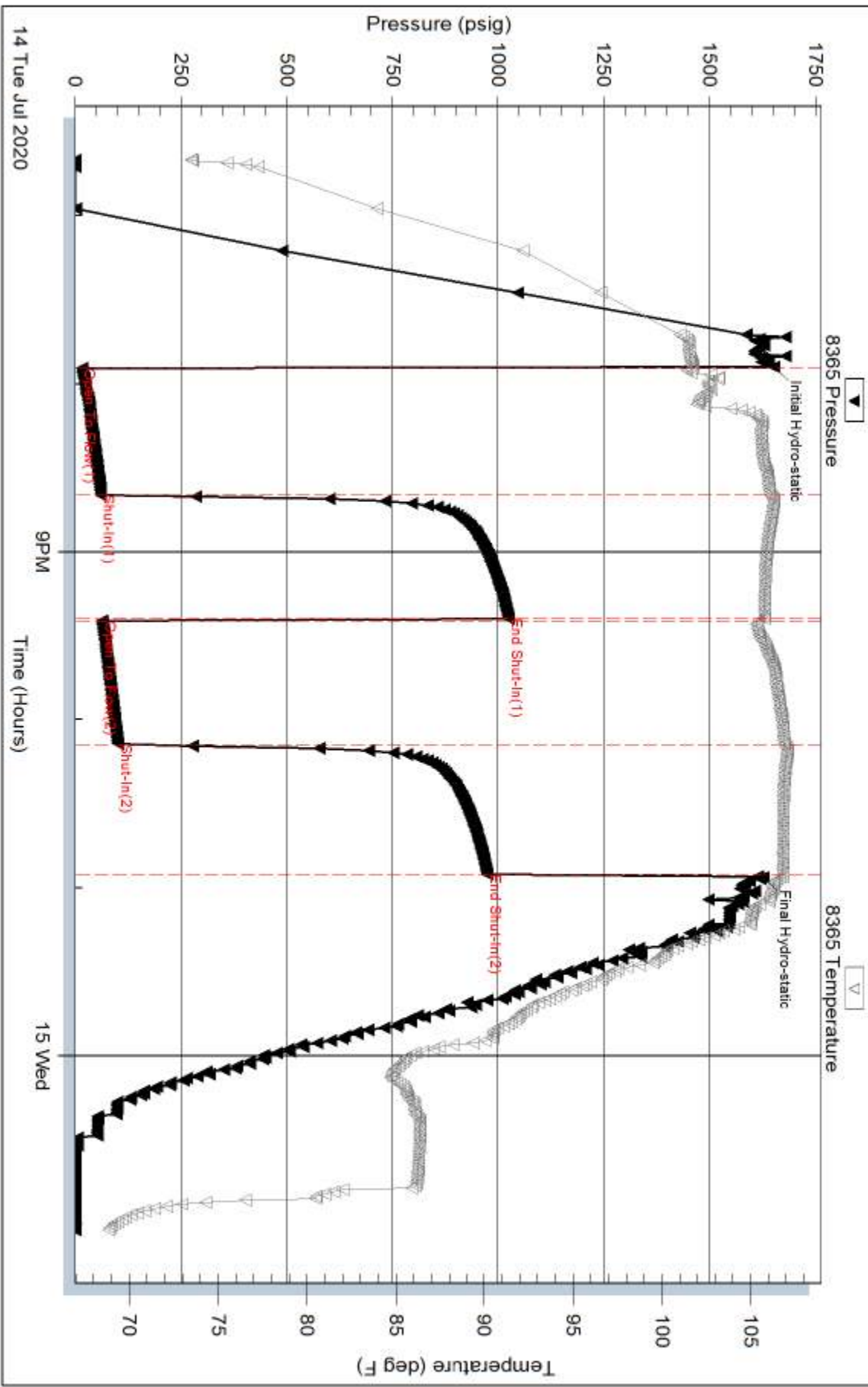
Inside

Mai Oil Operations Inc.

Hawker #1

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 66245

Printed: 2020.07.16 @ 13:38:41

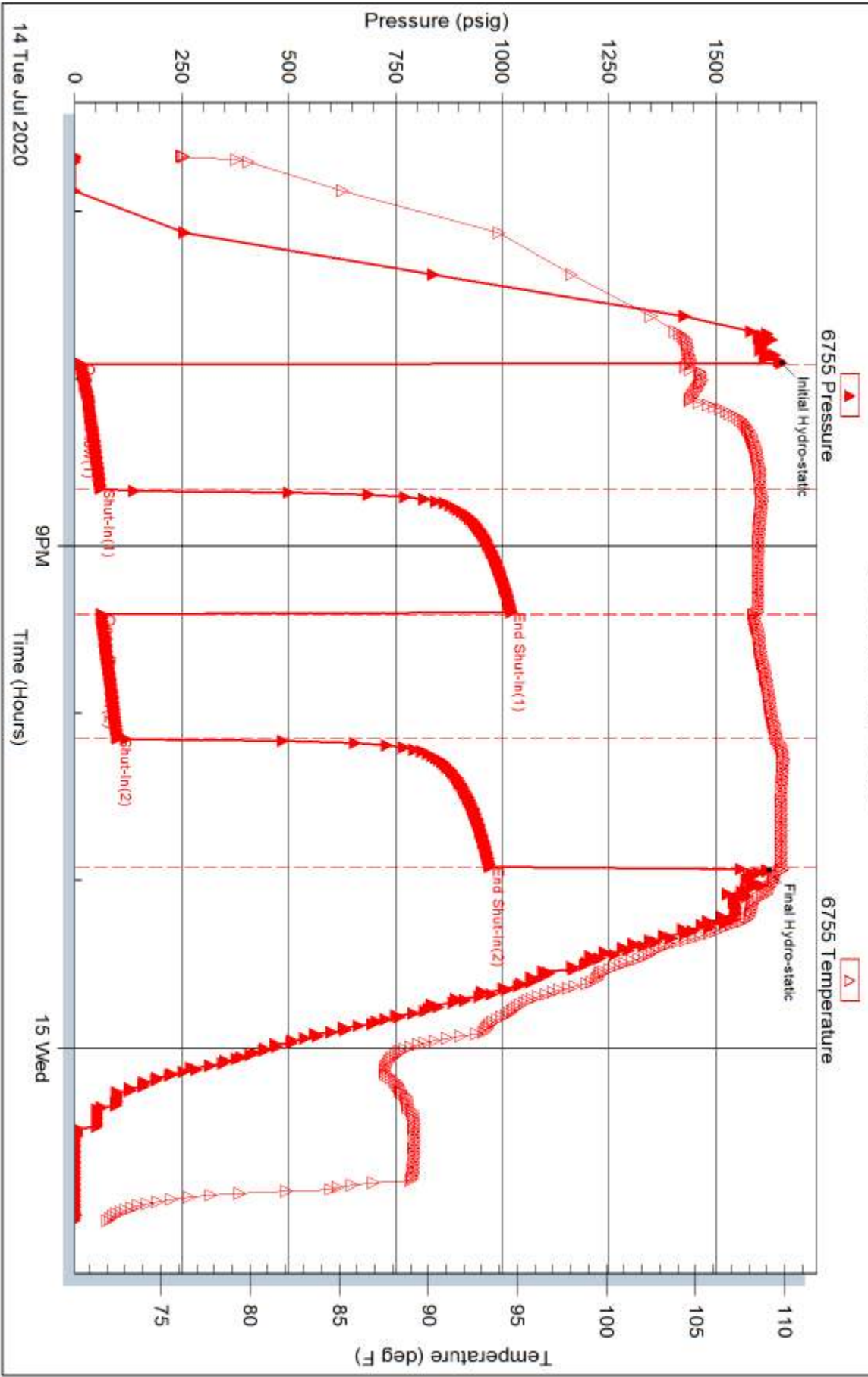
Serial #: 6755

Outside Mai Oil Operations Inc.

Hawker #1

DST Test Number: 5

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66241

NO.

Well Name & No. Hawker #2 Test No. 2 Date 10 July 2020
 Company Mai Oil Operations Inc. Elevation 3379 KB 3370 GL
 Address 8411 Preston Rd Suite 800 Dallas TX 75225+5520
 Co. Rep / Geo. Jim Musgrave Rig Southwind Rig 3
 Location: Sec. 27 Twp 15S Rge. 13W Co. Russell State KS

Interval Tested 2464-2524 Zone Tested Tarkio
 Anchor Length 60 Drill Pipe Run 2404 Mud Wt. 8.8
 Top Packer Depth 2459 Drill Collars Run 60 Vis 46
 Bottom Packer Depth 2464 Wt. Pipe Run - WL 6.0
 Total Depth 2524 Chlorides 4600 ppm System LCM 2#

Blow Description IF Blow to BOB 11 min/6 ft slide / Total build 18 inches
ISI No blow back
FF Blow to BOB 40 minutes / Total build 14 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>OSW MW</u>		<u>75</u>	<u>25</u>	
<u>107</u>	<u>OSW MW</u>		<u>24</u>	<u>7.5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 231 BHT 95 Gravity 1.258 @ 75° F Chlorides 24000 ppm

(A) Initial Hydrostatic <u>1174</u>	☒ Test <u>1200</u>	T-On Location <u>4:46 pm</u>
(B) First Initial Flow <u>84</u>	☐ Jars	T-Started <u>6:49 pm</u>
(C) First Final Flow <u>82</u>	☐ Safety Joint	T-Open <u>8:22 pm</u>
(D) Initial Shut-In <u>732</u>	☐ Circ Sub	T-Pulled <u>10:52 pm</u>
(E) Second Initial Flow <u>90</u>	☐ Hourly Standby	T-Out <u>12:32 pm</u>
(F) Second Final Flow <u>119</u>	☒ Mileage <u>52</u> <u>52</u>	Comments
(G) Final Shut-In <u>714</u>	☐ Sampler	
(H) Final Hydrostatic <u>1157</u>	☐ Straddle	

Initial Open <u>30</u>	☐ Shale Packer	☐ EM Tool
Initial Shut-In <u>30</u>	☐ Extra Packer	☐ Ruined Shale Packer
Final Flow <u>45</u>	☐ Extra Recorder	☐ Ruined Packer
Final Shut-In <u>45</u>	☐ Day Standby	☐ Extra Copies
	☐ Accessibility	Sub Total <u>0</u>
	Sub Total <u>1252</u>	Total <u>1252</u>
		MP/DST Disc't

Approved By _____ Our Representative [Signature]
 Trilobite 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66242

NO.

Well Name & No. Hawker #1 Test No. 2 Date 12 July 20
 Company Mai Oil Operations Inc. Elevation 3379 KB 3320 GL
 Address 8411 Preston Rd Suites 400 Dallas TX 75225-5520
 Co. Rep / Geo. Jim Musgrave Rig Southwind Rig 3
 Location: Sec. 27 Twp 15S Rge. 13W Co. Russell State KS

Interval Tested 3051-3114 Zone Tested Lansing A-E
 Anchor Length 63 Drill Pipe Run 3035 Mud Wt. 9.3
 Top Packer Depth 3046 Drill Collars Run - Vis 50
 Bottom Packer Depth 3051 Wt. Pipe Run - WL 8.0
 Total Depth 3114 Chlorides 5900 ppm System LCM 1#

Blow Description IF Blow built to 4 inches

ISI No blow back

FF Blow built to 5 1/2 inches

FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>OSUM</u>			<u>29</u>	<u>70</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 65 BHT 105 Gravity API RW 298 @ 81 °F Chlorides 19000 ppm

(A) Initial Hydrostatic 1532

☒ Test 1200

T-On Location 1322

(B) First Initial Flow 17

☐ Jars

T-Started 1446

(C) First Final Flow 33

☐ Safety Joint

T-Open 1603

(D) Initial Shut-In 757

☐ Circ Sub

T-Pulled 1848

(E) Second Initial Flow 36

☐ Hourly Standby

T-Out 2020

(F) Second Final Flow 45

☒ Mileage 52 52

Comments

(G) Final Shut-In 768

☐ Sampler

(H) Final Hydrostatic 1497

☐ Straddle

☐ EM Tool

Initial Open 30

☐ Shale Packer

☐ Ruined Shale Packer

Initial Shut-In 30

☐ Extra Packer

☐ Ruined Packer

Final Flow 45

☐ Extra Recorder

☐ Extra Copies

Final Shut-In 60

☐ Day Standby

Sub Total 0

☐ Accessibility

Total 1252

Sub Total 1252

MP/DST Disc't

Approved By

Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66243

NO.

Well Name & No. Hawker #2 Test No. 3 Date 13 July 20
 Company Mai Oil Operations Inc Elevation 3379 KB 3370 GL
 Address 8411 Preston Rd Suite 800 Dallas TX 75225-1550
 Co. Rep / Geo. Jim Musgrave Rig Southwind Rig 3
 Location: Sec. 27 Twp 15S Rge. 13W Co. Russell State KS

Interval Tested 3117-3141 Zone Tested Lansing G
 Anchor Length 24 Drill Pipe Run 3128 Mud Wt. 9.3
 Top Packer Depth 3112 Drill Collars Run - Vis 50
 Bottom Packer Depth 3117 Wt. Pipe Run - WL 8.0
 Total Depth 3141 Chlorides 5900 ppm System LCM 1H

Blow Description IF Blow built to 3 1/2 inches
ISI No blow back
FF Blow built to 6 inches
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>GV50CM</u>	<u>5</u>	<u>5</u>	<u>90</u>	<u>90</u>
<u>25</u>	<u>GIP</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total BHT 104 Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>1607</u>	☒ Test 1200	T-On Location <u>2:00 am</u>
(B) First Initial Flow <u>17</u>	☐ Jars	T-Started <u>2:48 am</u>
(C) First Final Flow <u>20</u>	☐ Safety Joint	T-Open <u>4:12 am</u>
(D) Initial Shut-In <u>673</u>	☐ Circ Sub	T-Pulled <u>7:57 am</u>
(E) Second Initial Flow <u>21</u>	☐ Hourly Standby	T-Out <u>8:32 am</u>
(F) Second Final Flow <u>28</u>	☒ Mileage <u>52</u> <u>56</u>	Comments <u> </u>
(G) Final Shut-In <u>787</u>	☐ Sampler	<u> </u>
(H) Final Hydrostatic <u>1554</u>	☐ Straddle	<u> </u>

Initial Open <u>30</u>	☐ Shale Packer	☐ EM Tool
Initial Shut-In <u>30</u>	☐ Extra Packer	☐ Ruined Shale Packer
Final Flow <u>45</u>	☐ Extra Recorder	☐ Ruined Packer
Final Shut-In <u>60</u>	☐ Day Standby	☐ Extra Copies
	☐ Accessibility	Sub Total <u>0</u>
	Sub Total <u>1252</u>	Total <u>1252</u>
		MP/DST Disc't <u> </u>

Approved By Our Representative

Trilobite Testing Inc. shall not be liable for damaged or 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66244

NO.

Well Name & No. Hawker #1 Test No. 4 Date 14 July 20
 Company Mai Oil Operations Inc Elevation 3379 KB 3370 GL
 Address 8411 Preston Rd Suite 800 Dallas TX 75225-5520
 Co. Rep / Geo. Jim Musgrove Rig Southwind Rig 3
 Location: Sec. 27 Twp 15S Rge. 13W Co. Russell State KS

Interval Tested 3288-3322 Zone Tested Airbuckle
 Anchor Length 34 Drill Pipe Run 3286 Mud Wt. 9.65
 Top Packer Depth 3283 Drill Collars Run — Vls 51
 Bottom Packer Depth 3288 Wt. Pipe Run — WL 11.2
 Total Depth 3322 Chlorides 7900 ppm System LCM Trace

Blow Description IF Blow built to 1/2 inch

FSI No blow back

FF Dead no blow / Flush tool no help

FSI No blow back

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	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1663

(B) First Initial Flow 28

(C) First Final Flow 26

(D) Initial Shut-In 815

(E) Second Initial Flow 28

(F) Second Final Flow 29

(G) Final Shut-In 753

(H) Final Hydrostatic 1630

Initial Open 30

Initial Shut-In 30

Final Flow 30

Final Shut-In 30

☒ Test 1200

☐ Jars

☐ Safety Joint

☐ Circ Sub

☐ Hourly Standby

☒ Mileage 56 52

☐ Sampler

☐ Straddle

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 1252

T-On Location 2 10 am

T-Started 3:36 am

T-Open 5:17 am

T-Pulled 7:17 am

T-Out 8:44 am

Comments _____

☐ EM Tool

☐ Ruined Shale Packer

☒ Ruined Packer

☐ Extra Copies

Sub Total 0

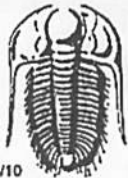
Total 1252

MP/DST Disc't _____

Approved By _____

Our Representative Ken [Signature]

Trilobite 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66245

NO.

Well Name & No. Hawker #1 Test No. 5 Date 14 July 20
 Company Mai Oil Operations Inc Elevation 3377 KB 3370 GL
 Address 8411 Preston Rd Suite 800 Dallas TX 75225+5520
 Co. Rep / Geo. Jim Musgrove Rig Southwind Rig 3
 Location: Sec. 27 Twp 15S Rge. 13W Co. Russell State K.S

Interval Tested 3289-3337 Zone Tested Arbuckle
 Anchor Length 48 Drill Pipe Run 3286 Mud Wt. 9.5
 Top Packer Depth 3284 Drill Collars Run — Vis 50
 Bottom Packer Depth 3289 Wt. Pipe Run — WL 10.4
 Total Depth 3337 Chlorides 6900 ppm System LCM 2#

Blow Description IF Blow to BOB in 39 minutes / Total build 13 inches
ESI No blow back
FF Blow built to 10 inches
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>clean oil</u>		<u>100%</u>		
<u>186</u>	<u>50CLWM</u>		<u>10</u>	<u>30</u>	<u>60</u>

Rec Total 191 BHT 107 Gravity 3.5 API RW 137 @ 73 °F Chlorides 18000 ppm

(A) Initial Hydrostatic <u>1654</u>	☒ Test <u>1200</u>	T-On Location <u>Stayed on location</u>
(B) First Initial Flow <u>16</u>	☐ Jars	T-Started <u>6:40 pm</u>
(C) First Final Flow <u>61</u>	☐ Safety Joint	T-Open <u>7:54 pm</u>
(D) Initial Shut-In <u>1025</u>	☐ Circ Sub	T-Pulled <u>10:54 pm</u>
(E) Second Initial Flow <u>63</u>	☐ Hourly Standby	T-Out <u>1:02 am</u>
(F) Second Final Flow <u>101</u>	☒ Mileage <u>56</u>	Comments <u>Stayed on location</u>
(G) Final Shut-In <u>975</u>	☐ Sampler	
(H) Final Hydrostatic <u>1627</u>	☐ Straddle	

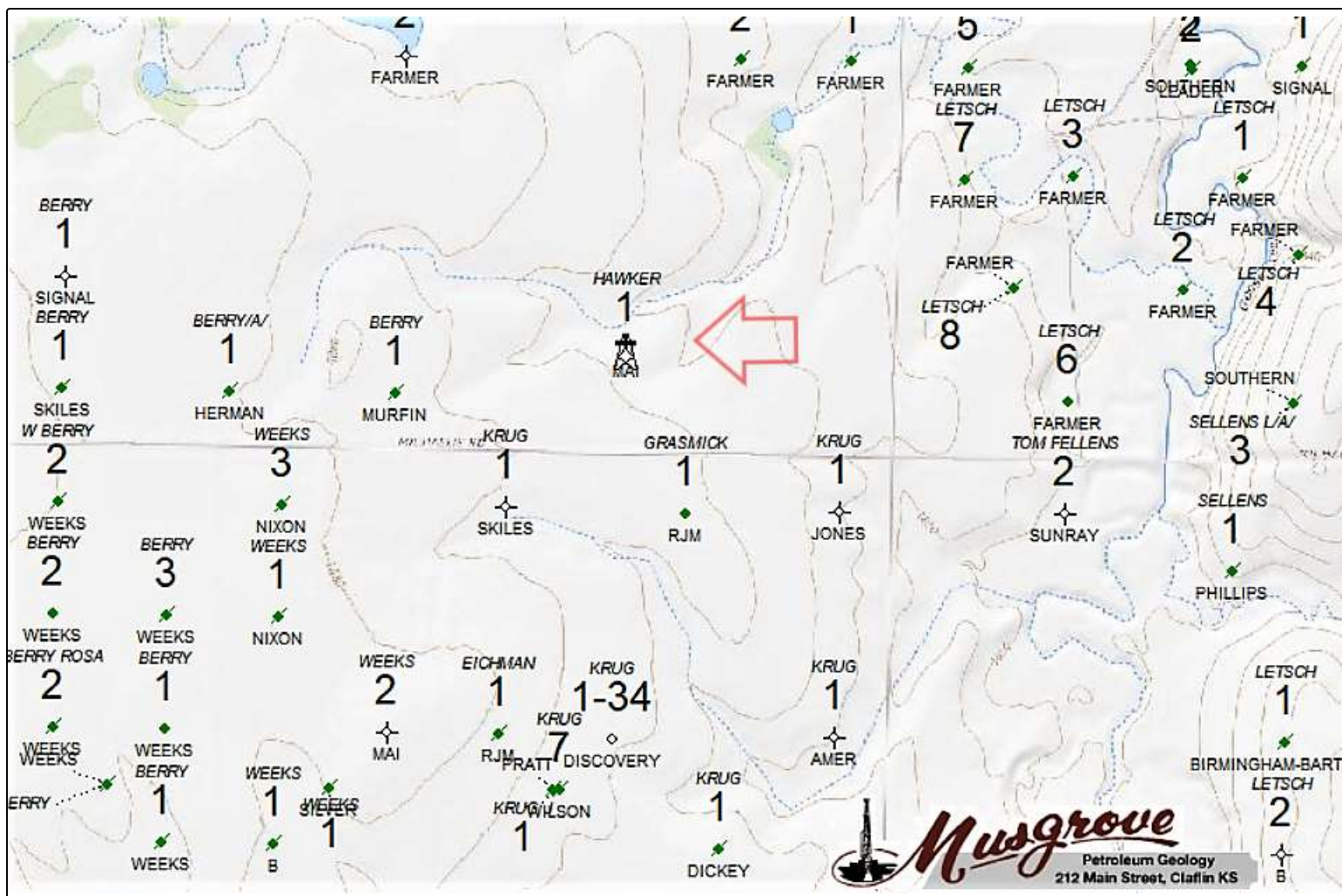
Initial Open <u>45</u>	☐ Shale Packer	☐ EM Tool
Initial Shut-In <u>45</u>	☐ Extra Packer	☐ Ruined Shale Packer
Final Flow <u>45</u>	☐ Extra Recorder	☐ Ruined Packer
Final Shut-In <u>45</u>	☐ Day Standby	☐ Extra Copies
	☐ Accessibility	Sub Total <u>0</u>
	Sub Total <u>1200</u>	Total <u>1200</u>
		MP/DST Disc't

Approved By _____ Our Representative Jim Musgrove
 Trilobite 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.



Scale 1:240 Imperial

Well Name:	HAWKER #1		
Surface Location:	27-15S-13W (NE-SE-SW-SE)		
Bottom Location:			
API:	15-167-24102-000		
License Number:	5259		
Spud Date:	7/8/2020	Time:	1:34 PM
Region:	BARTON		
Drilling Completed:	7/15/2020	Time:	5:50 PM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	1856.00ft		
K.B. Elevation:	1865.00ft		
Logged Interval:	2250.00ft	To:	3410.00ft
Total Depth:	3410.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		



ELEVATIONS

K.B. Elevation: 1865.00ft
K.B. to Ground: 9.00ft

Ground Elevation: 1856.00ft

CONTRACTOR

Contractor: SOUTHWIND DRILLING
Rig #: 3
Rig Type: MUD ROTARY
Spud Date: 7/8/2020
TD Date: 7/15/2020
Rig Release:

Time: 1:34 PM
Time: 5:50 PM
Time:

NOTES

Company: MAI OIL OPERATIONS, INC.

Lease: HAWKER#1

Field: TRAPP

Location: NE-SE-SW-SE (625' FSL & 1625' FEL)

Sec: 27 Twsp: 15S Rge: 13W

County: Russell State: Kansas

KB: 1865' GL: 1856'

Mud Up: 2200' Type Mud: Chemical

Samples Saved From: 2250' to RTD

Drilling Time Kept From: 2250' to RTD

Samples Examined From: 2250' to RTD

Geological Supervision from: 2300' to RTD

Geologist on Well: Jim Musgrove

OPEN HOLE LOGS

Logging Company: ELI WIRELINE
Logging Engineer: GUS PFANENSTIEL
Truck #: 1523
Logging Date: 7/15/2020
Logs Run: 2

Time Spent: 2
Logs Run Successful: 2

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
CDL/CNL	2250.00ft	3390.00ft	0.50		1
MICRO	2250.00ft	3390.00ft	0.50		1
SONIC	2250.00ft	3390.00ft	0.50		2
DIL	0.00ft	3400.00ft	0.50		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
12/5/2007	0.00ft	0.00ft	

OPERATOR

Company: MAI OIL OPERATIONS, INC.
Address: 8411 PRESTON RD. STE. 800
DALLAS TX, 75225

Contact Geologist:
Contact Phone Nbr:

Well Name: HAWKER #1
Location: 27-15S-13W (NE-SE-SW-SE)
API: 15-167-24102-000

Pool:
State: Kansas

Field: TRAPP
Country: USA

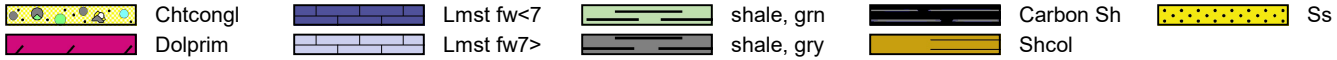


Company: Musgrove Petroleum, inc.
Address: 212 Main Street
Claflin, KS 67525

Phone Nbr: (620) 792-7716
Logged By: Geologist

Name: Jim Musgrove

ROCK TYPES



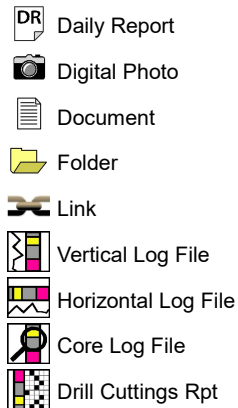
ACCESSORIES

STRINGER

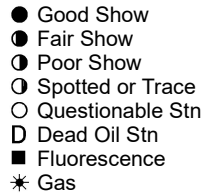
Shale

OTHER SYMBOLS

MISC



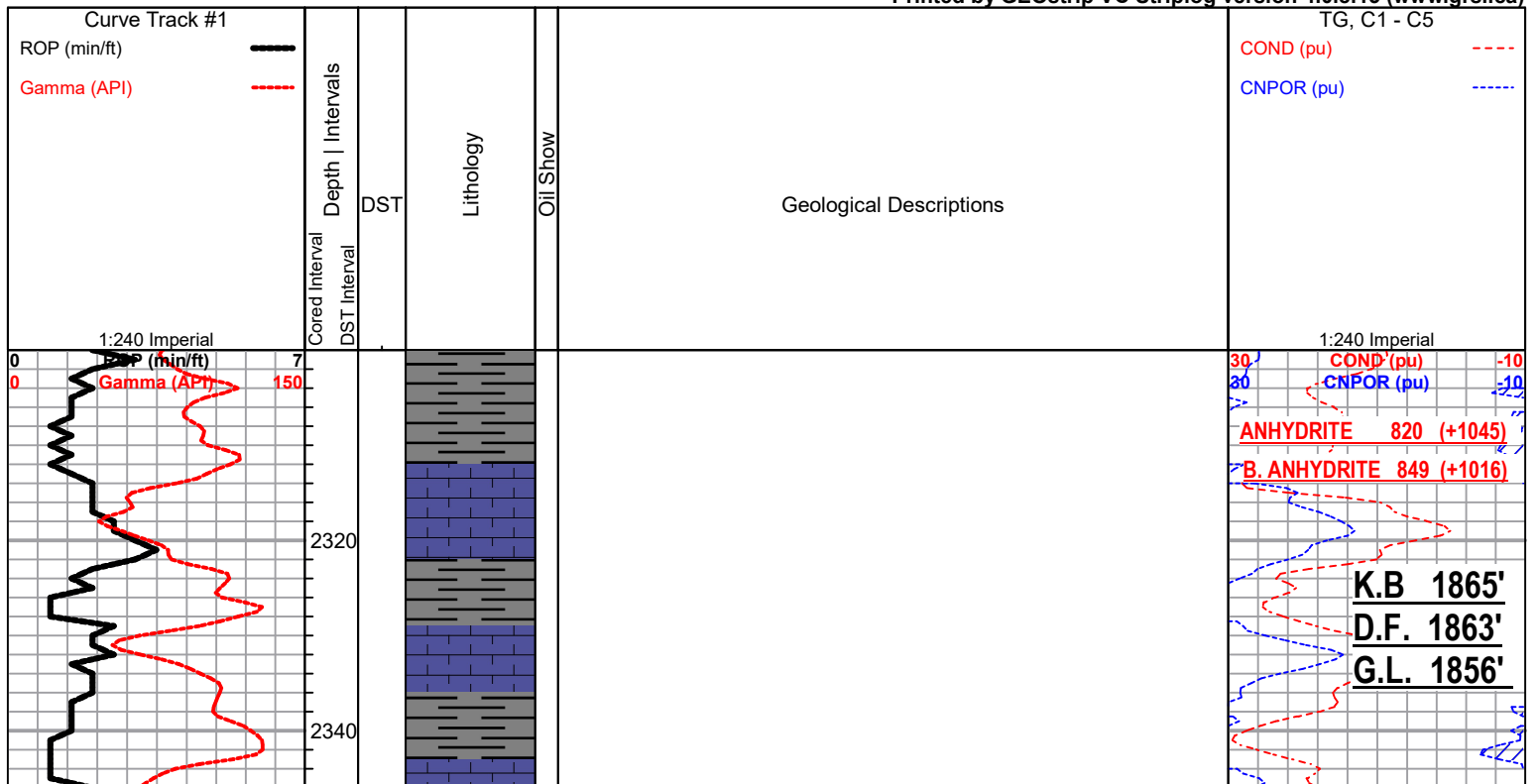
Oil Show

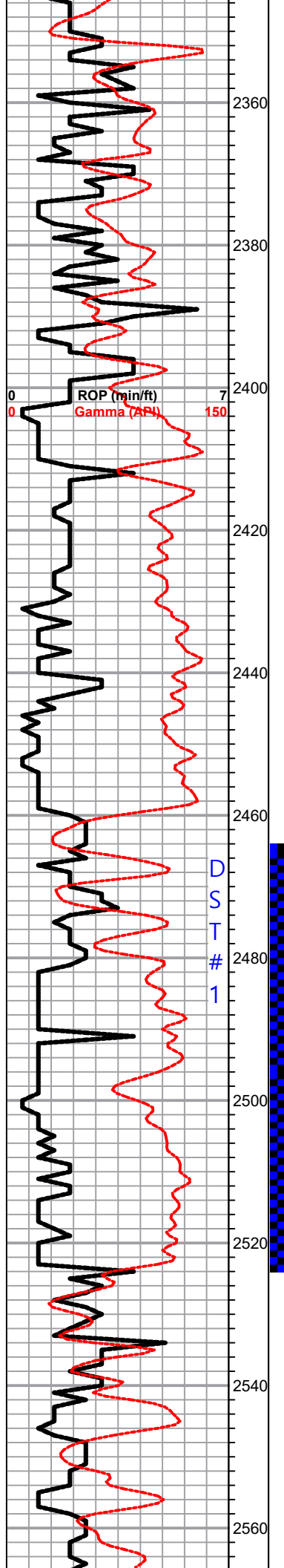


DST



Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





LS, white, cream, foss, chalky, poor vis. porosity

Sh, gry/ green/ maroon, soft , sandy in pts

Sh, a/a tr. maroon tinted LS

Grand Haven 2389.0 [-524.0]

1st Tarkio 2396.0 [-531.0]

Sd., white, gry, mica, sub rounded, friable in part, poor - fair inner granular porosity, tr. poor brn, stain, in few , nsfo, ??? odor,

Sd. white, gry, vfg, friable, poor -fair i.g. por., tr. poor brn stn, nsfo, ??? odor,

Dover 2410.0 [-545.0]

LS, white, gry, chalky, (dense)

2nd Tarkio 2417.0 [-552.0]

Tr. sd. gry-brn, mica, silty, poorly developed , tr. poor stain, no odor

Sh, gry, gryish- green, silty,

Tarkio Lime 2460.0 [-595.0]

LS, white,cream, chalky, poor porosity

LS, a/a, gry, tan, slightly foss, chalky, no shows

3rd Tarkio 2481.0 [-616.0]

Sd., white, tan, fg., sub rounded friable,fair ig, brn stain , sfo, ft. odor

4th Tarkio 2492.0 [-627.0]

Sd., a/a, mica, fair golden brn stain , sfo, faint odor

Sd., a/a

Elmont 2524.0 [-659.0]

LS, wh, gry, crm, fxl, chalky

Sh, gry , green

LS, tan, gry, foss in part chalky, no shows

Sh, maroon, gry,

DST # 1 2464-2524

30-30-45-45

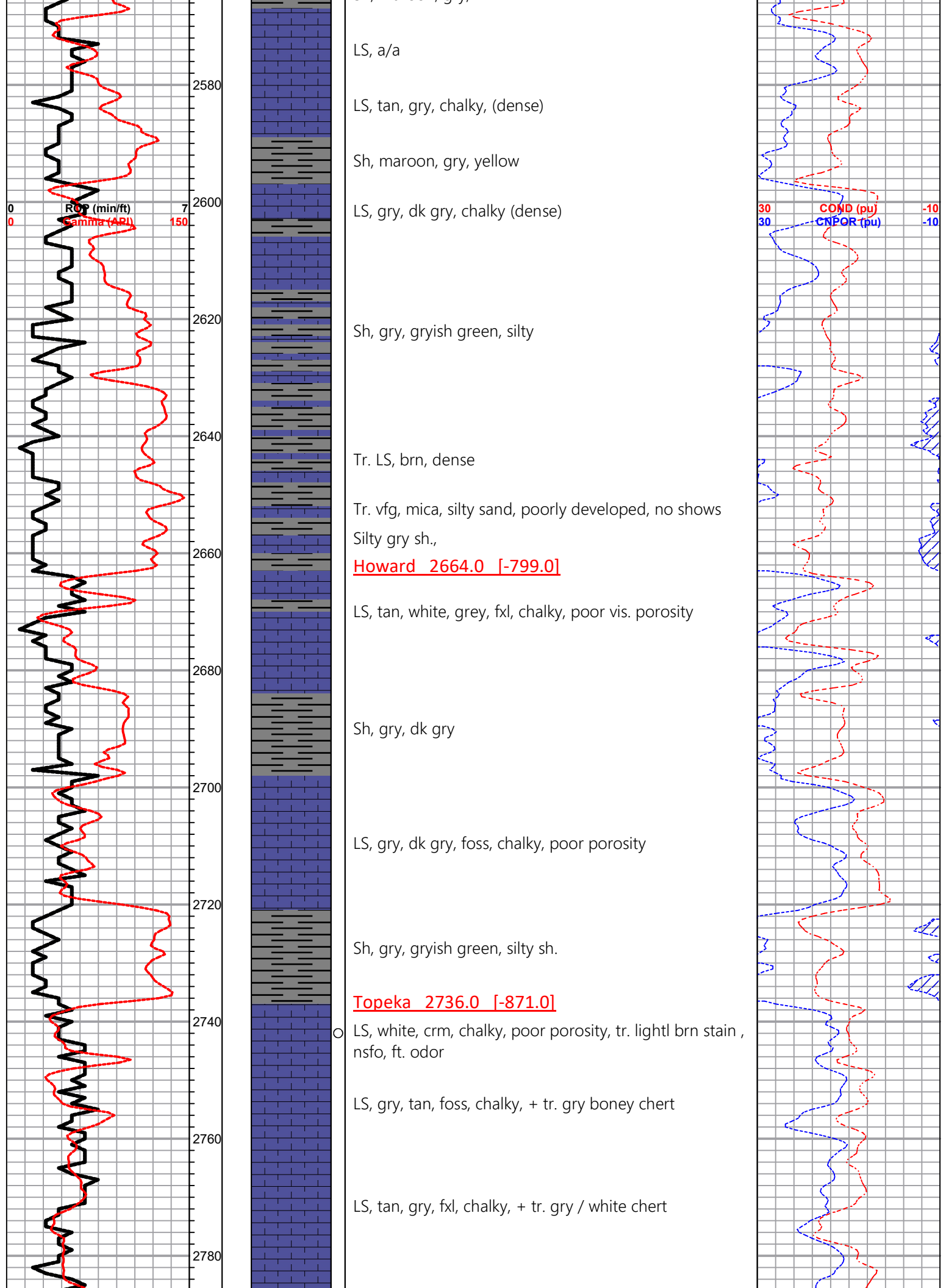
1st Open:
BOB 11 min.

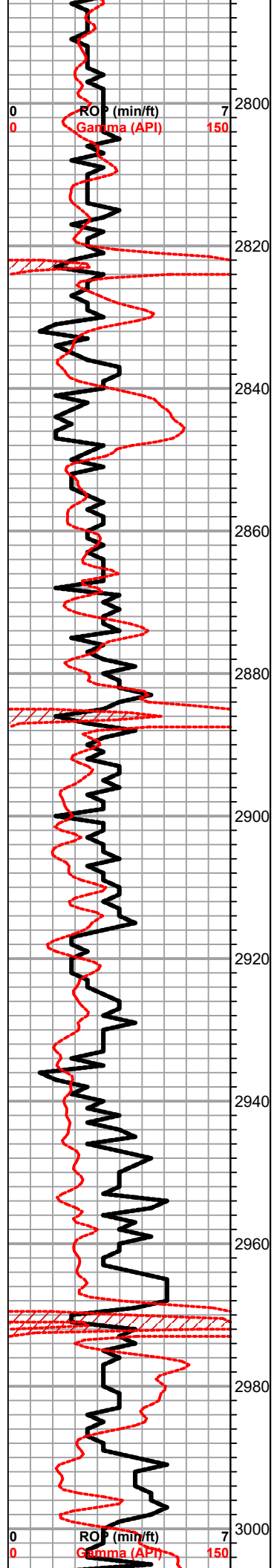
2nd Open:
BOB 40 min.

Recovery:
124' Muddy Water
107' Oil spotted
muddy water.
1%O, 24%W, 75%M

Pressures:
ISIP 732 psi
FSIP 714 psi
IFP 84-82 psi
FFP 90-119 psi
HSH

DRILL STEM TEST# 1-4





LS, tan, foss, sl. cherty, poor vis. porosity, no shows

LS, tan, foss, inc. chalky, poor vis. porosity

King Hill 2821.0 [-956.0]

Sh, black carb

LS, white, crm, chalky, (dense)

Sh, gry/ blk sh,

LS, white, gry, chalky, poorly developed, no shows

Sh, LS, a/a, + gry chert

Queen Hill 2884.0 [-1019.0]

Sh, black carb

LS, white, gry, chalky, poor porosity

○ LS wh/ gry, sub oom, chalky, brown/ blk stan, tr. fo., no odor

○ LS, tan, crm, fxl, chalky, poor vis. tr. brn stain , nsfo, no odor

LS, a/a, foss+ gry chert

Heebner 2968.0 [-1103.0]

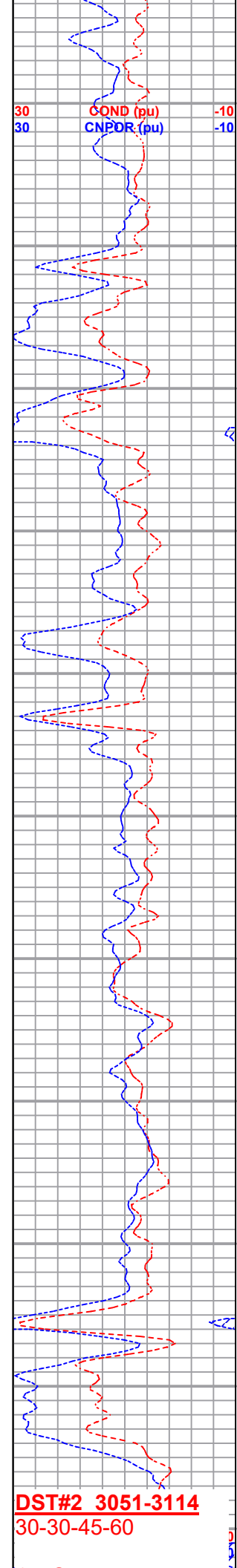
Sh, black carb

Sh, gry/ crm, soft clay

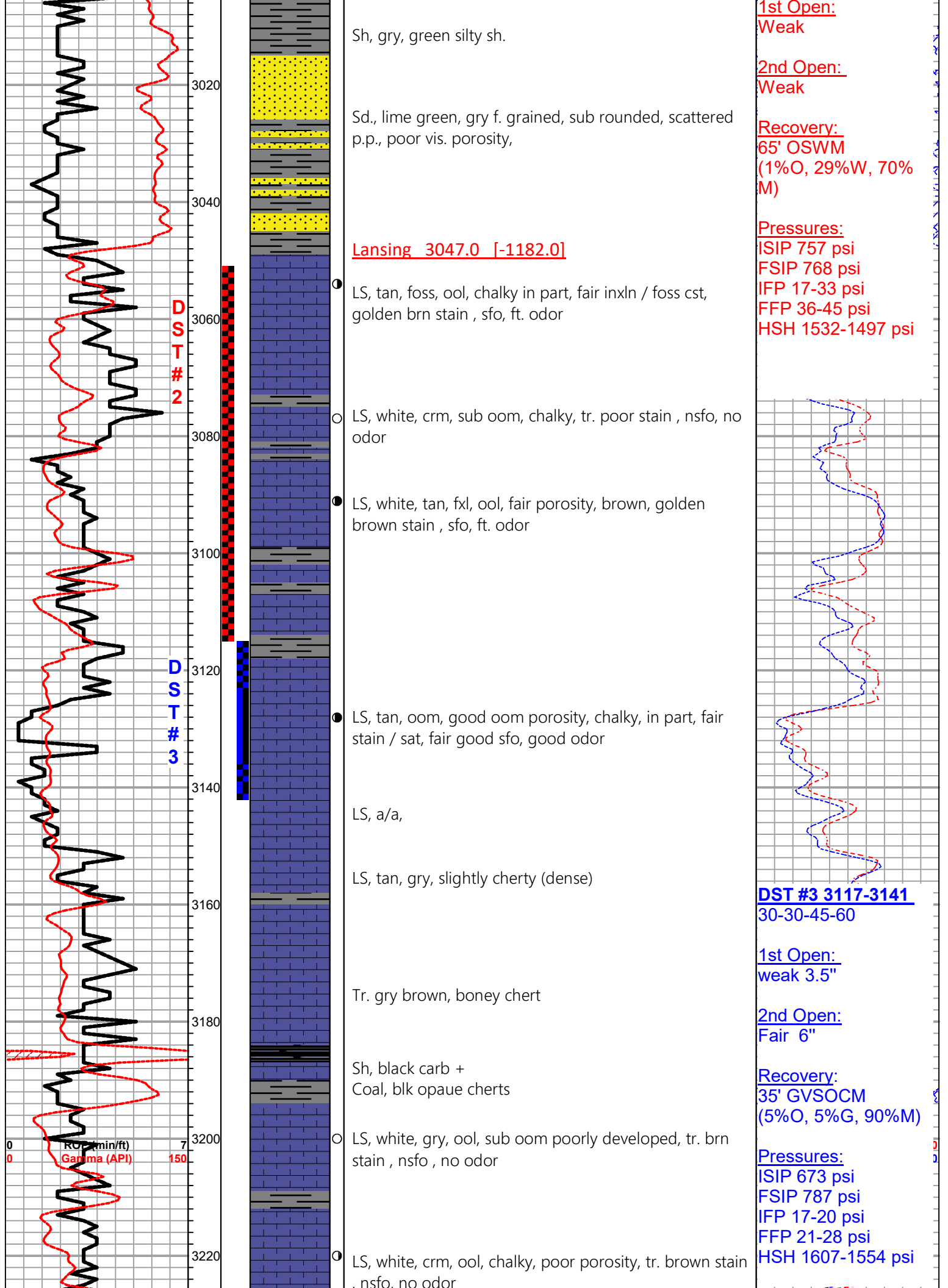
Toronto 2989.0 [-1124.0]

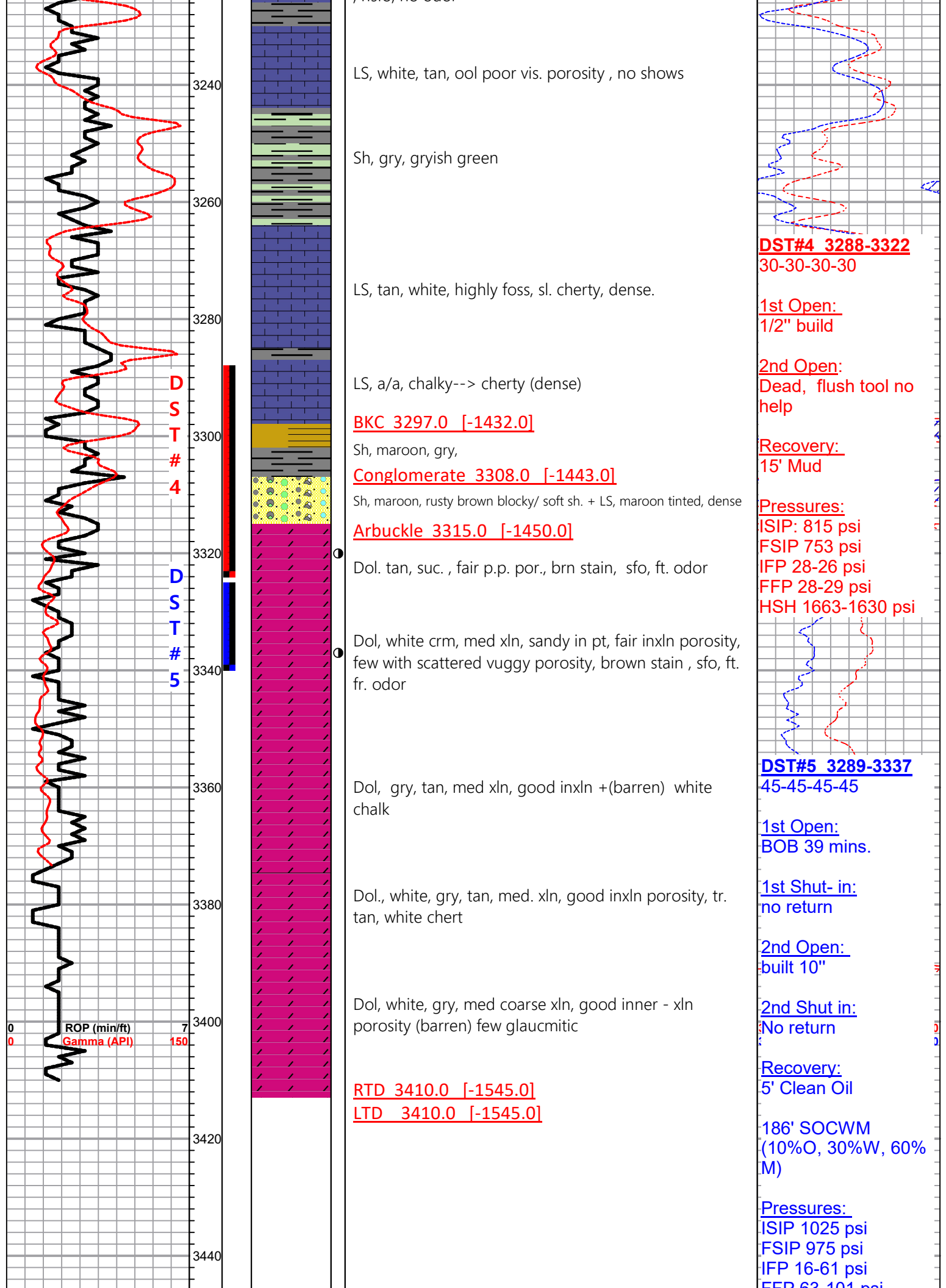
LS, white gry, fxl, chalky, poor porosity, few dolomitics

Douglas 3005.0 [-1140.0]



DST#2 3051-3114
30-30-45-60





3460

FRP 63-101 psi
HSH 1654-1627 psi



QUALITY OILWELL CEMENTING, INC.
PO BOX 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
PHONE: 785-324-1041 FAX: 785-483-1087
EMAIL: cementing@ruraltel.net

Date: 7/8/2020
Invoice # 2036

P.O.#:

Due Date: 8/7/2020

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8411 Preston Rd. Ste 800
Dallas TX 75225-5520

Reference:

HAWKER 1 SEC 27-15-13

Description of Work:

LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 502.96	No				
Common-Class A	135	\$ 1,881.26	Yes				
POZ Mix-Standard	90	\$ 426.18	Yes				
Calcium Chloride	10	\$ 378.82	Yes				
Bulk Truck Matl-Material Service Charge	239	\$ 161.68	No				
8 5/8" Top Rubber Plug	1	\$ 82.53	Yes				
Premium Gel (Bentonite)	4	\$ 78.47	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 45.66	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 35.51	No				

Invoice Terms:

Net 30

SubTotal: \$ 3,593.07

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (89.83)

SubTotal for Taxable Items: \$ 2,776.08

SubTotal for Non-Taxable Items: \$ 727.16

Total: \$ 3,503.24

Tax: \$ 235.97

8.50% Russell County Sales Tax

Amount Due: \$ 3,739.21

Applied Payments:

Balance Due: \$ 3,739.21

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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No. 2036

Date <u>7/8/2020</u>		Sec. <u>27</u>	Twp. <u>15</u>	Range <u>13</u>	County <u>Russell</u>	State <u>Kansas</u>	On Location	Finish <u>2:30</u>
					Location <u>Pioneer + Michaelis R2 3/4 E</u>			
Lease <u>Hawker</u>		Well No. <u>1</u>		Owner				
Contractor <u>Southwind</u>		Rig # <u>3</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Type Job <u>Surface</u>					Charge To <u>Mai Oil Operations Inc</u>			
Hole Size <u>12 1/4</u>		T.D. <u>521</u>		Street				
Csg. <u>8 5/8</u>		Depth <u>521</u>		City				
Tbg. Size		Depth		State				
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg. <u>20'</u>		Shoe Joint <u>20'</u>		Cement Amount Ordered <u>225 40 4% cc 2% gel</u>				
Meas Line		Displace <u>31.5 bbl</u>						
EQUIPMENT				Common <u>135</u>				
Pumptrk <u>17</u>		No.	Cementer <u>Jim</u>	Poz. Mix <u>90</u>				
Bulktrk <u>9</u>		No.	Driver <u>Doug</u>	Gel. <u>4</u>				
Bulktrk <u>PU</u>		No.	Driver <u>David</u>	Calcium <u>10</u>				
JOB SERVICES & REMARKS				Hulls				
Remarks:				Salt				
Rat Hole				Flowseal				
Mouse Hole				Kol-Seal				
Centralizers				Mud CLR 48				
Baskets				CFL-117 or CD110 CAF 38				
D/V or Port Collar				Sand				
				Handling <u>239</u>				
				Mileage				
				FLOAT EQUIPMENT				
				Guide Shoe				
				Centralizer				
				Baskets				
				AFU Inserts				
				Float Shoe				
				Latch Down				
				<u>8 5/8 Rubber Plug</u>				
				Pumptrk Charge				
<u>Cement Did Circulate</u>				Mileage				
				Tax				
				Discount				
X Signature <u>Amie Shien</u>				Total Charge				



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
PHONE: 785-324-1041 FAX: 785-483-1087
EMAIL: cementing@ruraltel.net

Date: 7/15/2020
Invoice # 2040

P.O.#:

Due Date: 8/14/2020

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8411 Preston Rd. Ste 800
Dallas TX 75225-5520

Reference:

HAWKER 1 SEC 27-15-13

Description of Work:

PLUG JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 582.97	Yes				
Common-Class A	144	\$ 1,938.27	Yes				
POZ Mix-Standard	96	\$ 439.09	Yes				
Premium Gel (Bentonite)	9	\$ 170.54	Yes				
Bulk Truck Matl-Material Service Charge	249	\$ 162.70	Yes				
Flo Seal	60	\$ 78.41	Yes				
Dry Hole Plug	1	\$ 54.89	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 44.11	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 34.30	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,505.28
Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (87.63)

SubTotal for Taxable Items:	\$ 3,417.65
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 3,417.65
Tax:	\$ 290.50

8.50% Russell County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,708.15
Applied Payments:
Balance Due: \$ 3,708.15

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 2040

Cell 785-324-1041

Date	7/15/2020	Sec.	27	Twp.	15	Range	13	County	Russell	State	Kansas	On Location		Finish	10:00pm		
								Location								Michael's + 190 th St 3/4 E Ninto	
Lease	Hawker				Well No.			1								Owner	
Contractor	Southwind Drilling Rig #3															To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	plug															Charge To	
Hole Size	7 3/8				T.D.			3410								Mai Oil Operations Inc	
Csg.					Depth											Street	
Tbg. Size					Depth											City	
Tool					Depth											State	
Cement Left in Csg.					Shoe Joint											The above was done to satisfaction and supervision of owner agent or contractor.	
							Cement Amount Ordered								240 9/10 4% gel		
Meas Line				Displace													
EQUIPMENT																	
Pumptrk	No.	Cementer						Common		144							
		Helper						Poz. Mix		96							
Bulktrk	No.	Driver						Gel.		9							
Bulktrk	No.	Driver						Calcium									
JOB SERVICES & REMARKS																	
Remarks:								Hulls									
Rat Hole								Salt									
Mouse Hole								Flowseal								60ft	
Centralizers								Kol-Seal									
Baskets								Mud CLR 48									
D/V or Port Collar								CFL-117 or CD110 CAF 38									
3296' - 50 sks								Sand									
								Handling								249	
830' - 50 sks								Mileage									
								FLOAT EQUIPMENT									
570' - 100 sks								Guide Shoe								8 5/8 Dry Hole plug	
								Centralizer									
40' - 10 sks								Baskets									
								AFU Inserts									
Rathole - 30 sks								Float Shoe									
								Latch Down									
								8 5/8 Dry hole plug									
Cement Did Circulate								Pumptrk Charge								plug	
								Mileage								15 (min)	
								Tax									
								Discount									
X Signature								Joy Kruer								Total Charge	