

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. 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	Raydon Exploration, Inc.
Well Name	BREYFOGLE 1-10
Doc ID	1717956

All Electric Logs Run

Dual Induction Log
Microlog
Compensated Density Neutron Log
Sonic Log





## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118

ATTN: Ed Grieves

### **Breyfogle #1-10**

#### **10-21S.-31W. Finney,KS**

Start Date: 2023.02.23 @ 13:30:00

End Date: 2023.02.23 @ 22:05:10

Job Ticket #: 69440                      DST #: 1

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

Printed: 2023.03.03 @ 16:03:13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc  
1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**10-21S.-31W. Finney,KS**

**Breyfogle #1-10**

Job Ticket: 69440

**DST#: 1**

Test Start: 2023.02.23 @ 13:30:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:00

Time Test Ended: 22:05:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **4522.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 4540.00 ft (KB) (TVD)

2893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 27.01 psig @ 4523.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.23

End Date:

2023.02.23

Last Calib.:

2023.02.23

Start Time: 13:30:01

End Time:

22:05:10

Time On Btm:

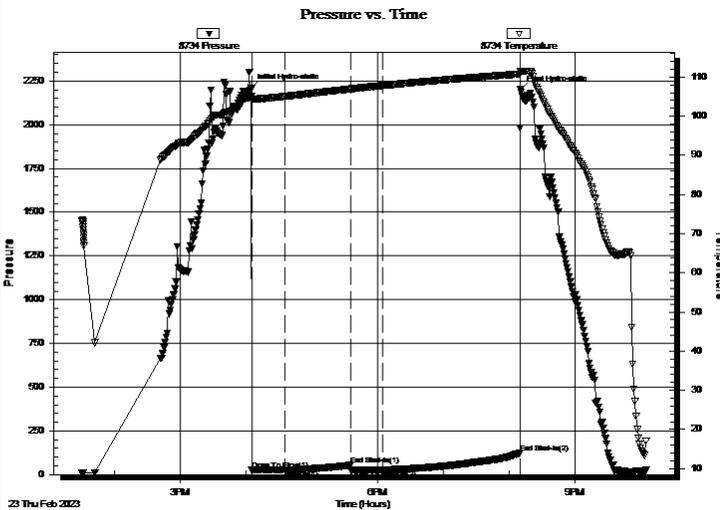
2023.02.23 @ 16:04:50

Time Off Btm:

2023.02.23 @ 20:10:30

TEST COMMENT: 30-IF-Blow built to 1/2" & died @ 26 mins  
60-ISI-No return  
30-FF-No blow  
120-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.86	105.02	Initial Hydro-static
1	25.43	104.24	Open To Flow (1)
31	26.97	105.05	Shut-In(1)
91	53.65	106.96	End Shut-In(1)
91	26.47	106.95	Open To Flow (2)
121	27.01	107.83	Shut-In(2)
246	123.86	110.79	End Shut-In(2)
246	2200.30	111.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% Mud	0.03

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69440

**DST#: 1**

Test Start: 2023.02.23 @ 13:30:00

## Tool Information

Drill Pipe:	Length: 4508.00 ft	Diameter: 3.80 inches	Volume: 63.24 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 63.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4522.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4490.00	
Shut In Tool	5.00			4495.00	
Hydraulic tool	5.00	1113		4500.00	
Jars	5.00	01-07		4505.00	
EM Tool	5.00			4510.00	
Safety Joint	3.00	-001		4513.00	
Packer	5.00			4518.00	33.00 Bottom Of Top Packer
Packer	4.00			4522.00	
Packer - Shale	0.00			4522.00	
Stubb	1.00			4523.00	
Recorder	0.00	8959	Inside	4523.00	
Recorder	0.00	8734	Outside	4523.00	
Perforations	12.00			4535.00	
Bullnose	5.00			4540.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69440

**DST#: 1**

Test Start: 2023.02.23 @ 13:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
2.00	100% Mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

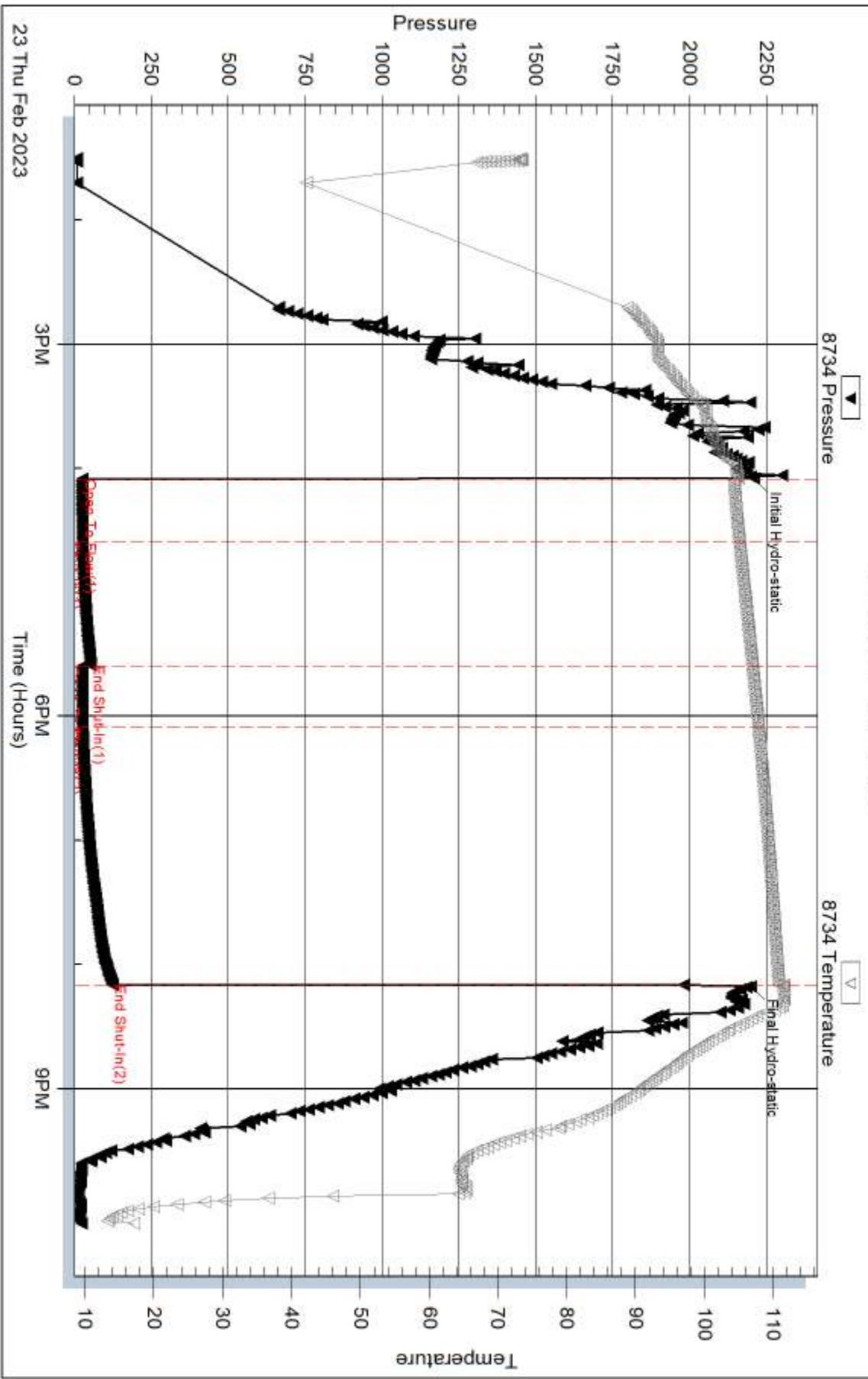
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



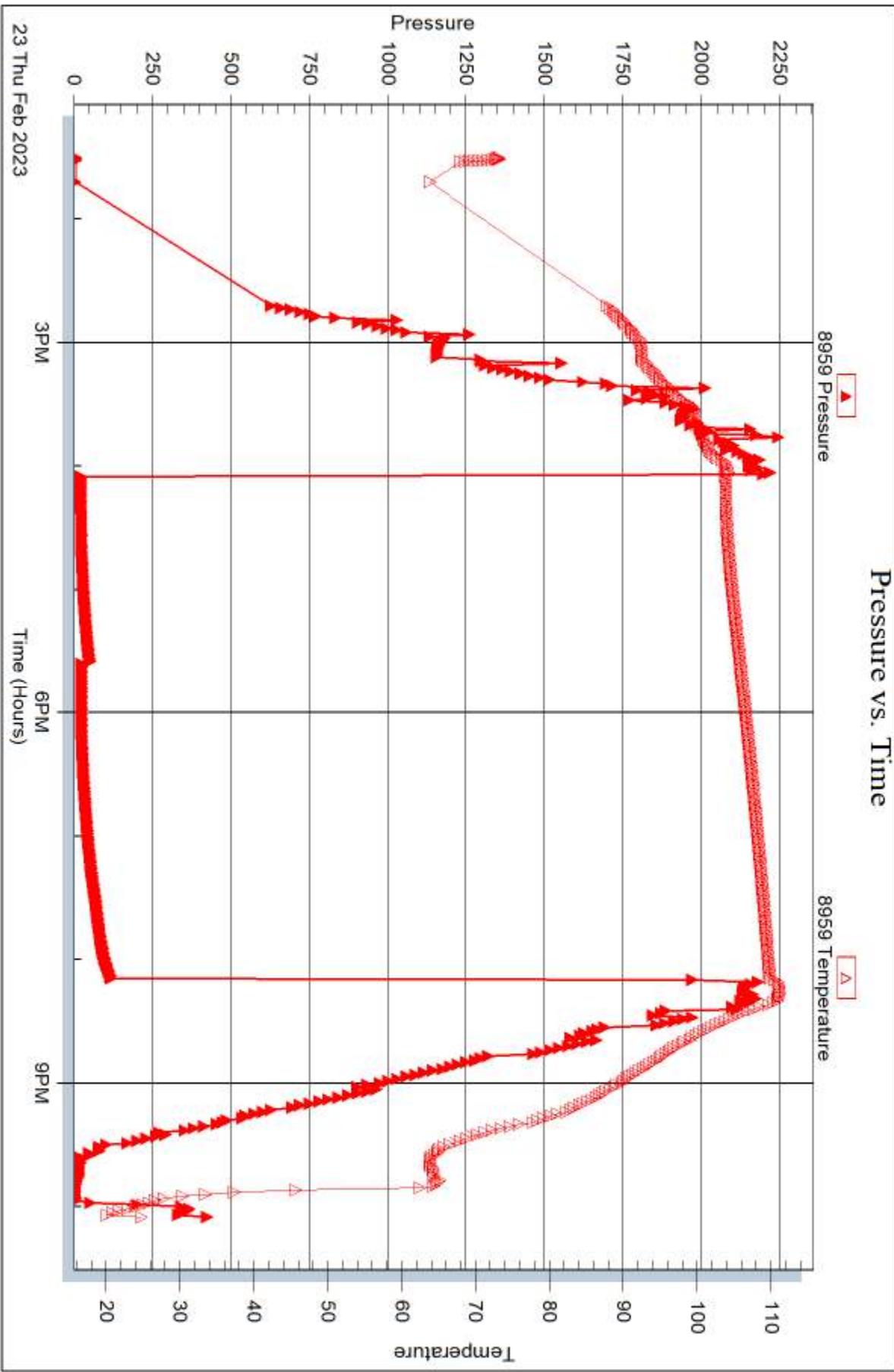
Serial #: 8959

Inside

Raydon Exploration Inc

Breyfogle #1-10

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 69440

Printed: 2023.03.03 @ 16:03:13



## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118

ATTN: Ed Grieves

### **Breyfogle #1-10**

#### **10-21S.-31W. Finney,KS**

Start Date: 2023.02.24 @ 13:05:00

End Date: 2023.02.24 @ 20:56:09

Job Ticket #: 69441                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.03.03 @ 16:02:51



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc  
1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**10-21S.-31W. Finney,KS**

**Breyfogle #1-10**

Job Ticket: 69441

**DST#: 2**

Test Start: 2023.02.24 @ 13:05:00

## GENERAL INFORMATION:

Formation: **Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:03:10

Time Test Ended: 20:56:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4543.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

2893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 27.14 psig @ 4544.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.24

End Date:

2023.02.24

Last Calib.:

2023.02.24

Start Time: 13:05:01

End Time:

20:56:10

Time On Btm:

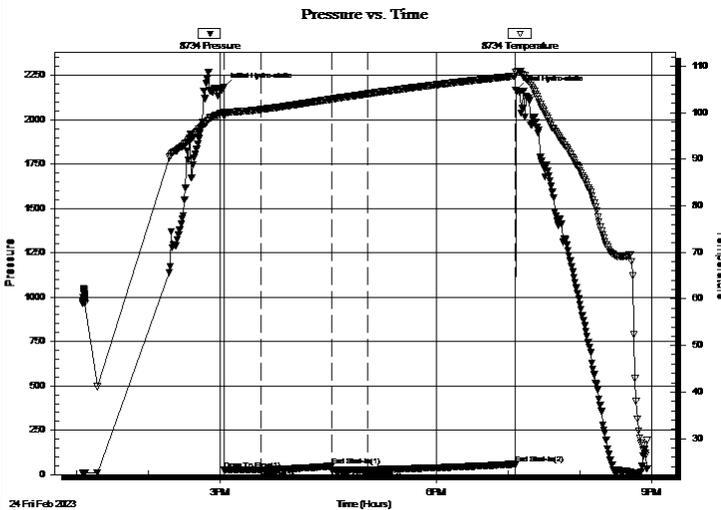
2023.02.24 @ 15:03:00

Time Off Btm:

2023.02.24 @ 19:06:30

**TEST COMMENT:** 30-IF-Blow built to 1/2" & reduced to 1/4"  
60-ISI-No return  
30-FF-No blow  
120-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.13	100.04	Initial Hydro-static
1	25.33	99.19	Open To Flow (1)
31	26.93	100.68	Shut-In(1)
90	47.83	102.91	End Shut-In(1)
90	26.71	102.91	Open To Flow (2)
120	27.14	104.06	Shut-In(2)
243	59.31	107.87	End Shut-In(2)
244	2166.99	108.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% Mud	0.03

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc  
 1601 NW Expressway  
 STE 1300  
 Oklahoma City, OK 73118  
 ATTN: Ed Grieves

**10-21S.-31W. Finney,KS**

**Breyfogle #1-10**

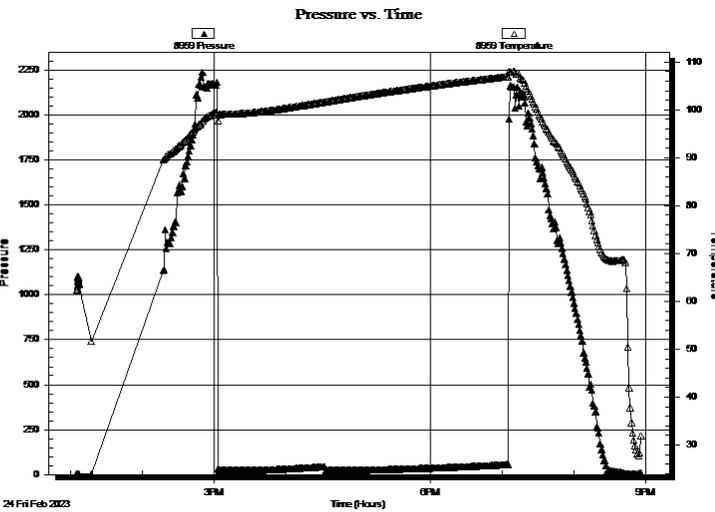
Job Ticket: 69441      **DST#: 2**  
 Test Start: 2023.02.24 @ 13:05:00

## GENERAL INFORMATION:

Formation: **Ft.Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:03:10  
 Time Test Ended: 20:56:09  
 Interval: **4543.00 ft (KB) To 4560.00 ft (KB) (TVD)**  
 Total Depth: 4560.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2901.00 ft (KB)  
 2893.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8959**      **Inside**  
 Press@RunDepth: psig @ 4544.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2023.02.24      End Date: 2023.02.24      Last Calib.: 2023.02.24  
 Start Time: 13:05:01      End Time: 20:56:10      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30-IF-Blow built to 1/2" & reduced to 1/4"  
 60-ISI-No return  
 30-FF-No blow  
 120-FSI-No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% Mud	0.03

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69441

**DST#: 2**

Test Start: 2023.02.24 @ 13:05:00

## Tool Information

Drill Pipe:	Length: 4541.00 ft	Diameter: 3.80 inches	Volume: 63.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 63.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4543.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4511.00	
Shut In Tool	5.00			4516.00	
Hydraulic tool	5.00	1113		4521.00	
Jars	5.00	01-07		4526.00	
EM Tool	5.00			4531.00	
Safety Joint	3.00	-001		4534.00	
Packer	5.00			4539.00	33.00 Bottom Of Top Packer
Packer	4.00			4543.00	
Packer - Shale	0.00			4543.00	
Stubb	1.00			4544.00	
Recorder	0.00	8959	Inside	4544.00	
Recorder	0.00	8734	Outside	4544.00	
Perforations	11.00			4555.00	
Bullnose	5.00			4560.00	17.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69441

**DST#: 2**

Test Start: 2023.02.24 @ 13:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% Mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

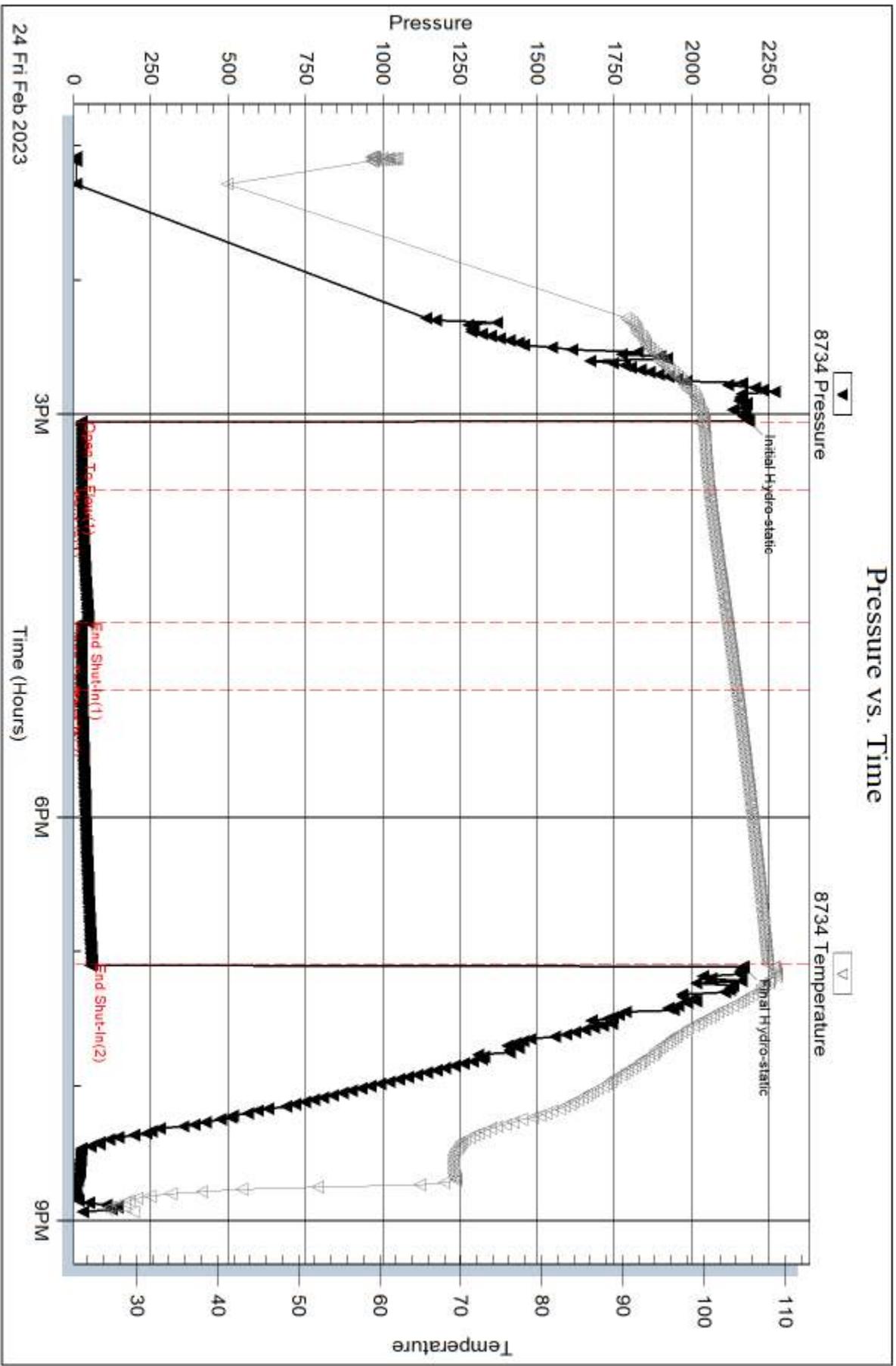
Recovery Comments:

Serial #: 8734

Outside Raydon Exploration Inc

Beyfogle #1-10

DST Test Number: 2



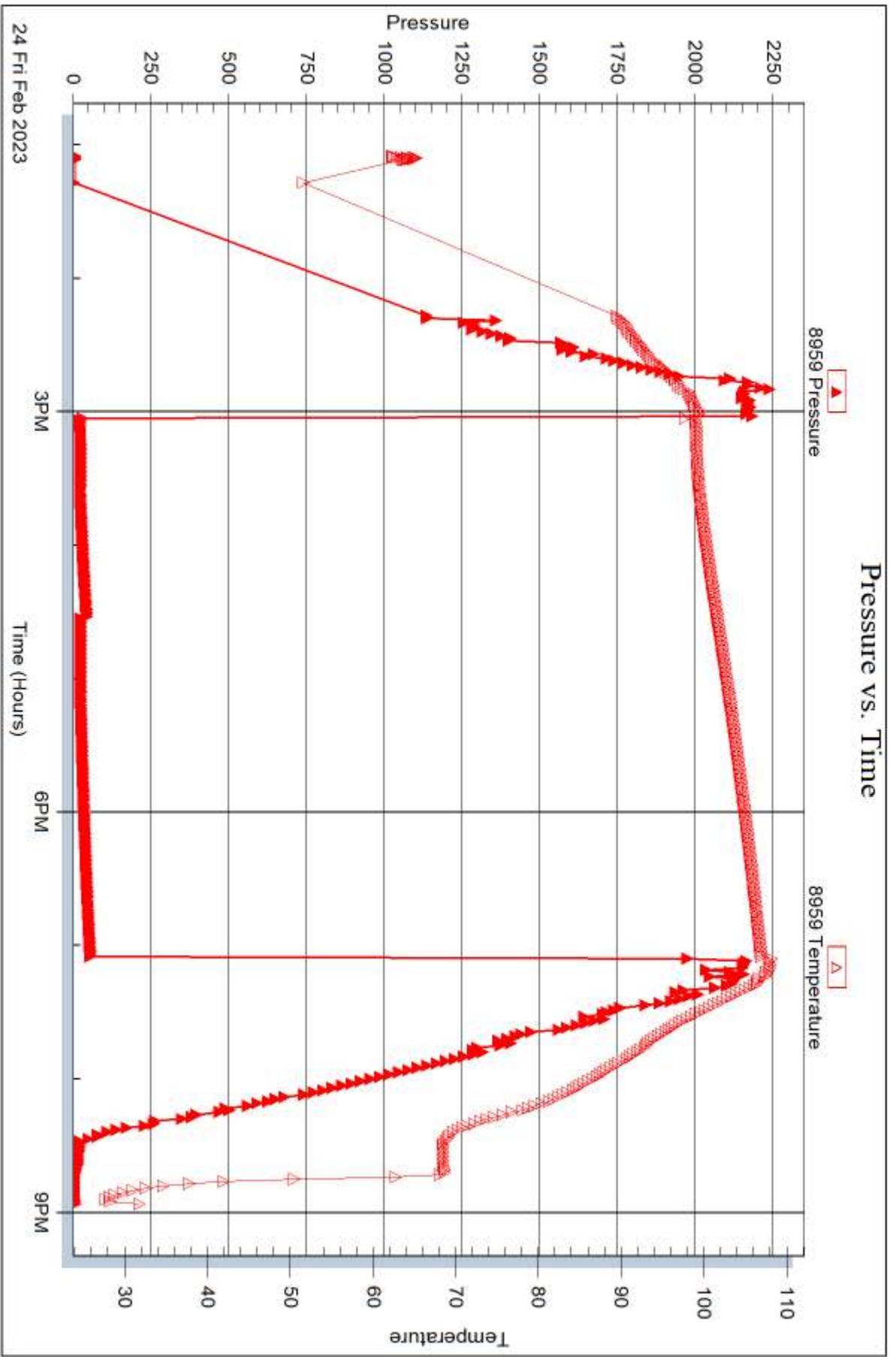
Serial #: 8959

Inside

Raydon Exploration Inc

Breyfogle #1-10

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 69441

Printed: 2023.03.03 @ 16:02:52



## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118

ATTN: Ed Grieves

### **Breyfogle #1-10**

#### **10-21S.-31W. Finney,KS**

Start Date: 2023.02.25 @ 15:30:00

End Date: 2023.02.26 @ 00:41:00

Job Ticket #: 69442                      DST #: 3

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

Printed: 2023.03.03 @ 16:02:32



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc  
1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**10-21S.-31W. Finney,KS**

**Breyfogle #1-10**

Job Ticket: 69442

**DST#: 3**

Test Start: 2023.02.25 @ 15:30:00

## GENERAL INFORMATION:

Formation: **Atoka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:17:20  
 Time Test Ended: 00:41:00  
 Interval: **4638.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: 4660.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2901.00 ft (KB)  
 2893.00 ft (CF)  
 KB to GR/CF: 8.00 ft

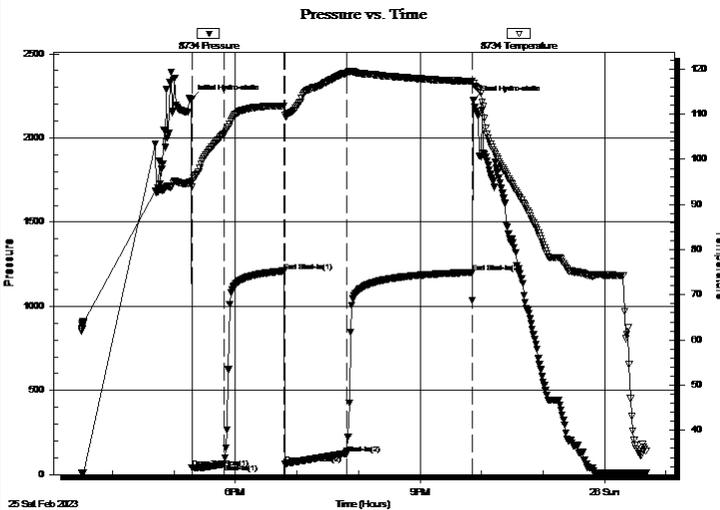
**Serial #: 8734**

**Outside**

Press@RunDepth: 125.29 psig @ 4639.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.02.25 End Date: 2023.02.26 Last Calib.: 2023.02.26  
 Start Time: 15:30:01 End Time: 00:41:00 Time On Btm: 2023.02.25 @ 17:17:10  
 Time Off Btm: 2023.02.25 @ 21:52:20

**TEST COMMENT:** 30-IF-B.O.B (11 inches) @ 7 mins (blow increased to 48 1/4")  
 60-ISI-No return  
 60-FF-B.O.B @ 8 mins (blow built to 42")  
 120-FSI-B.O.B @ 93 mins (blow built to 14 3/4")

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.07	94.82	Initial Hydro-static
1	39.80	93.90	Open To Flow (1)
32	61.66	105.59	Shut-In(1)
90	1208.94	111.74	End Shut-In(1)
91	62.43	109.84	Open To Flow (2)
152	125.29	119.13	Shut-In(2)
274	1201.96	117.29	End Shut-In(2)
276	2224.70	116.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMCO 50%G, 20%M, 30%O	0.42
315.00	CGO 20%G, 80%O	4.42
0.00	1820' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69442

**DST#: 3**

Test Start: 2023.02.25 @ 15:30:00

## Tool Information

Drill Pipe:	Length: 4635.00 ft	Diameter: 3.80 inches	Volume: 65.02 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 65.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4638.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4606.00	
Shut In Tool	5.00			4611.00	
Hydraulic tool	5.00	1113		4616.00	
Jars	5.00	01-07		4621.00	
EM Tool	5.00			4626.00	
Safety Joint	3.00	-001		4629.00	
Packer	5.00			4634.00	33.00 Bottom Of Top Packer
Packer	4.00			4638.00	
Packer - Shale	0.00			4638.00	
Stubb	1.00			4639.00	
Recorder	0.00	8959	Inside	4639.00	
Recorder	0.00	8734	Outside	4639.00	
Perforations	16.00			4655.00	
Bullnose	5.00			4660.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69442

**DST#: 3**

Test Start: 2023.02.25 @ 15:30:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 5.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1100.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 29.4 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

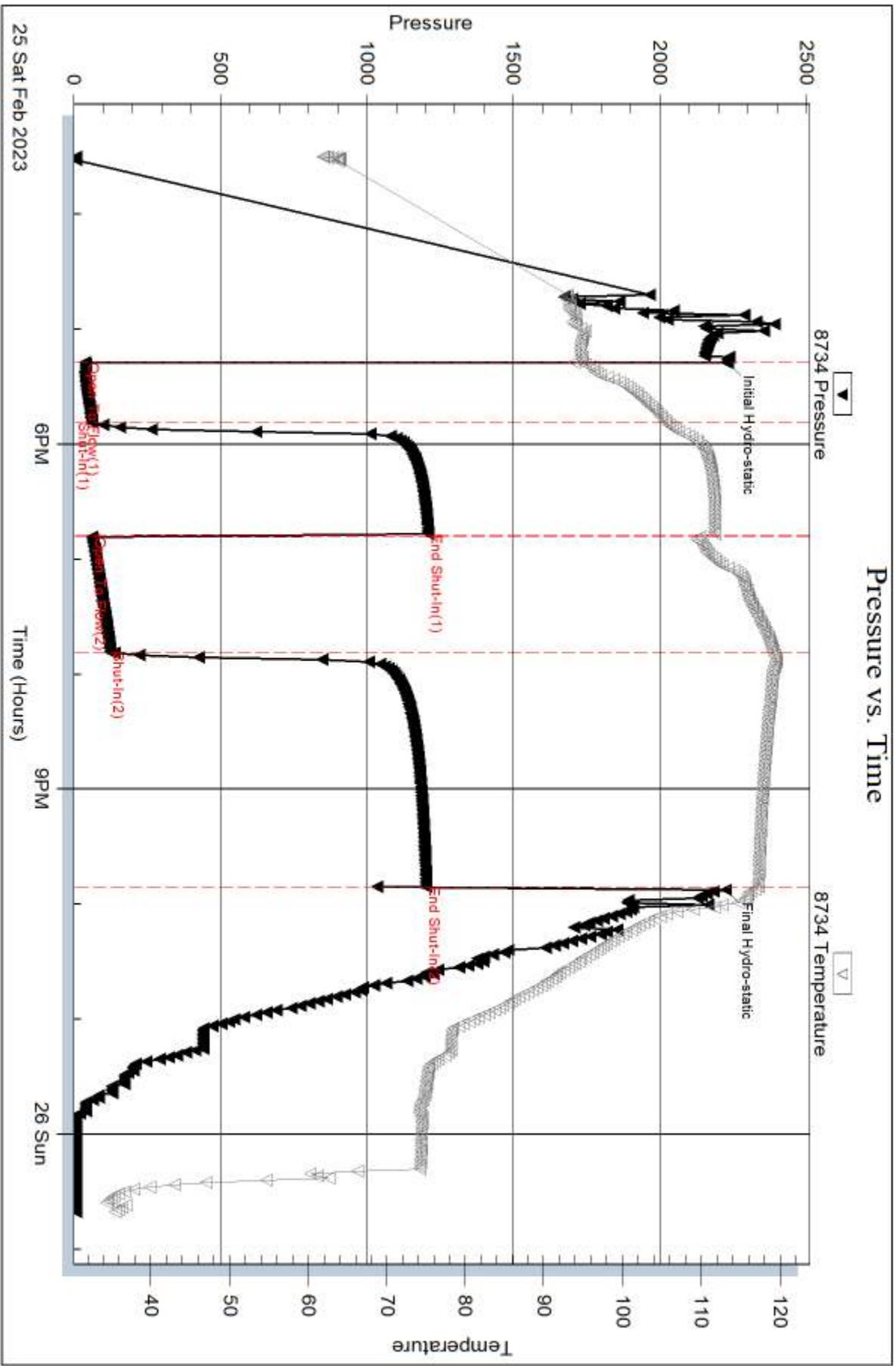
Length ft	Description	Volume bbl
30.00	GMCO 50%G, 20%M, 30%O	0.421
315.00	CGO 20%G, 80%O	4.419
0.00	1820' GIP	0.000

Total Length: 345.00 ft      Total Volume: 4.840 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity of oil = 27.4 @ 40 degs corrected to 29.4 @ 60 degs



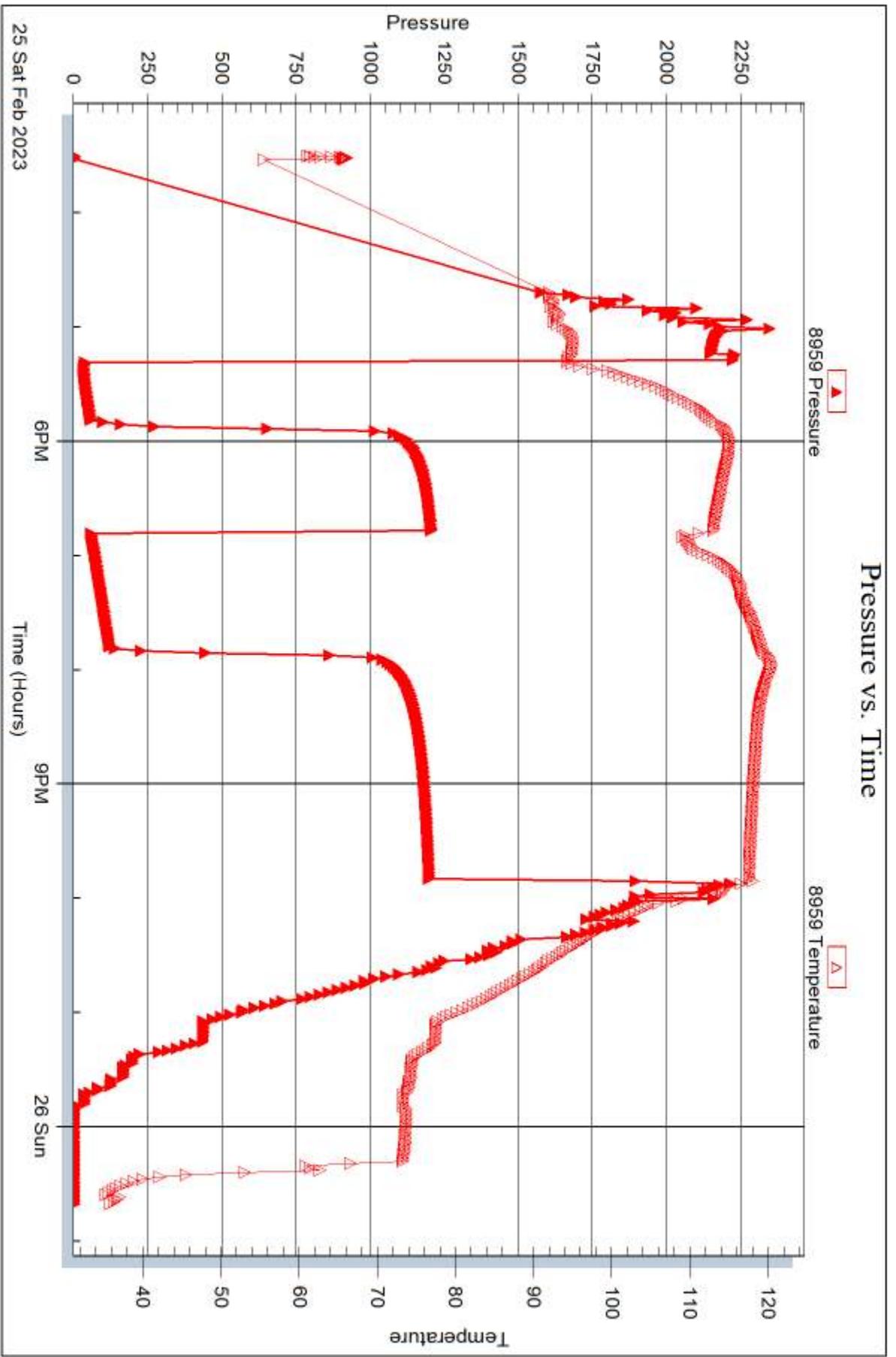
Serial #: 8959

Inside

Raydon Exploration Inc

Breyfogle #1-10

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 69442

Printed: 2023.03.03 @ 16:02:32



## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118

ATTN: Ed Grieves

### **Breyfogle #1-10**

#### **10-21S.-31W. Finney,KS**

Start Date: 2023.02.26 @ 15:50:00

End Date: 2023.02.27 @ 00:52:00

Job Ticket #: 69443                      DST #: 4

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

Printed: 2023.03.03 @ 16:02:02



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc  
 1601 NW Expressway  
 STE 1300  
 Oklahoma City, OK 73118  
 ATTN: Ed Grieves

**10-21S.-31W. Finney,KS**

**Breyfogle #1-10**

Job Ticket: 69443 **DST#: 4**  
 Test Start: 2023.02.26 @ 15:50:00

## GENERAL INFORMATION:

Formation: **Upper St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:49:30  
 Time Test Ended: 00:52:00  
 Interval: **4682.00 ft (KB) To 4700.00 ft (KB) (TVD)**  
 Total Depth: 4700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2901.00 ft (KB)  
 2893.00 ft (CF)  
 KB to GR/CF: 8.00 ft

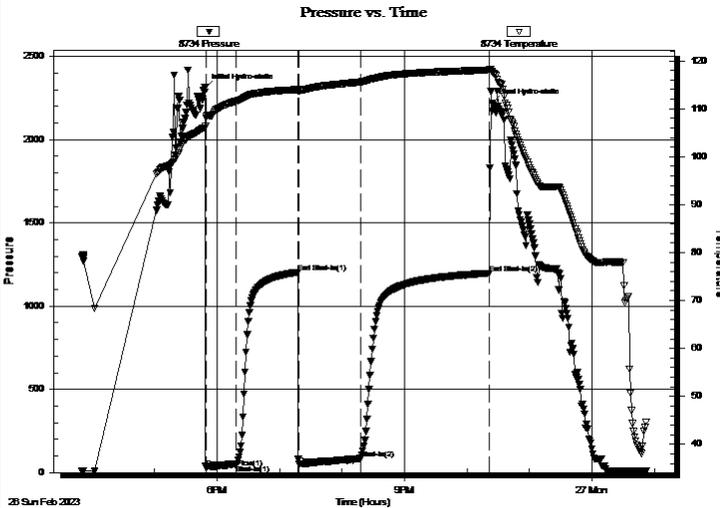
## Serial #: 8734

**Outside**

Press@RunDepth: 85.26 psig @ 4683.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.02.26 End Date: 2023.02.27 Last Calib.: 2023.02.27  
 Start Time: 15:50:01 End Time: 00:52:00 Time On Btm: 2023.02.26 @ 17:48:10  
 Time Off Btm: 2023.02.26 @ 22:24:30

**TEST COMMENT:** 30-IF-B.O.B (11 inches) @ 17 mins (blow built to 23 1/4"  
 60-ISI-Return blow built to 1 1/2" & reduced to 1 1/4"  
 60-FF-B.O.B @ 9 mins (blow built to 49 1/4")  
 120-FSI-Return blow built to 6" & reduced to 4 1/2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.31	106.05	Initial Hydro-static
2	31.03	108.00	Open To Flow (1)
31	47.74	111.55	Shut-In(1)
90	1203.91	114.01	End Shut-In(1)
91	49.80	113.71	Open To Flow (2)
150	85.26	115.58	Shut-In(2)
274	1197.82	118.07	End Shut-In(2)
277	2217.50	117.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 42%G,25%M,33%O	0.84
90.00	CGO 40%G, 60%O	1.26
0.00	400' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69443

**DST#: 4**

Test Start: 2023.02.26 @ 15:50:00

## Tool Information

Drill Pipe:	Length: 4667.00 ft	Diameter: 3.80 inches	Volume: 65.47 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 65.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4682.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4650.00	
Shut In Tool	5.00			4655.00	
Hydraulic tool	5.00	1113		4660.00	
Jars	5.00	01-07		4665.00	
EM Tool	5.00			4670.00	
Safety Joint	3.00	-001		4673.00	
Packer	5.00			4678.00	33.00 Bottom Of Top Packer
Packer	4.00			4682.00	
Packer - Shale	0.00			4682.00	
Stubb	1.00			4683.00	
Recorder	0.00	8959	Inside	4683.00	
Recorder	0.00	8734	Outside	4683.00	
Perforations	12.00			4695.00	
Bullnose	5.00			4700.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69443

**DST#: 4**

Test Start: 2023.02.26 @ 15:50:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 5.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 27 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

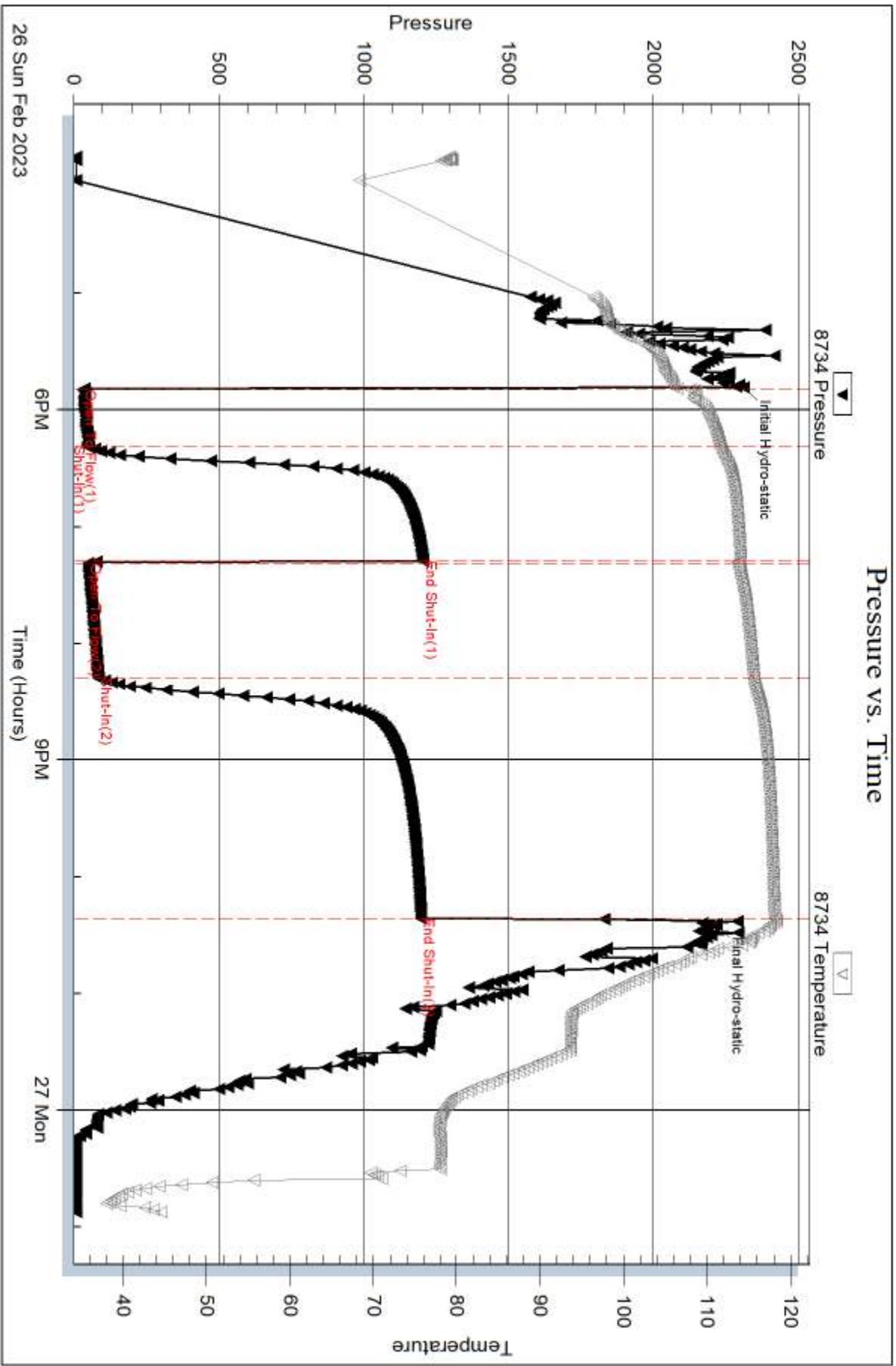
Length ft	Description	Volume bbl
60.00	GMCO 42%G,25%M,33%O	0.842
90.00	CGO 40%G, 60%O	1.262
0.00	400' GIP	0.000

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity of oil = 25.4 @ 60 degs corrected to 27.0 @ 60 degs



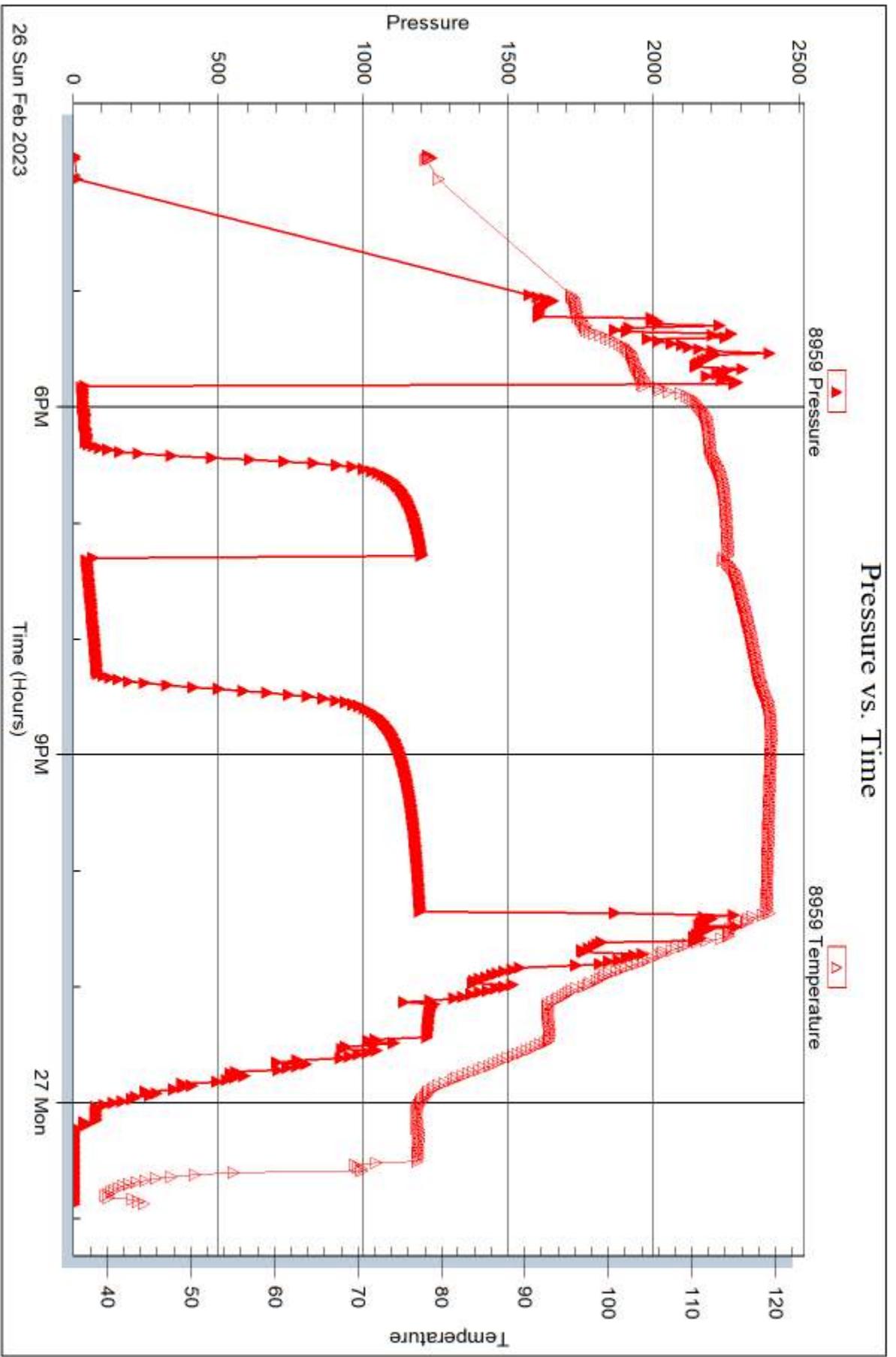
Serial #: 8959

Inside

Raydon Exploration Inc

Beyfogle #1-10

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 69443

Printed: 2023.03.03 @ 16:02:03



## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118

ATTN: Ed Grieves

### **Breyfogle #1-10**

#### **10-21S.-31W. Finney,KS**

Start Date: 2023.02.27 @ 13:35:00

End Date: 2023.02.27 @ 21:55:20

Job Ticket #: 69444                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.03.03 @ 16:01:29

Raydon Exploration Inc

10-21S.-31W. Finney,KS

Breyfogle #1-10

DST # 5

St Louis Porosity

2023.02.27



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69444

**DST#: 5**

Test Start: 2023.02.27 @ 13:35:00

## GENERAL INFORMATION:

Formation: **St Louis Porosity**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:00

Time Test Ended: 21:55:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4716.00 ft (KB) To 4730.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 4730.00 ft (KB) (TVD)

2893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 21.93 psig @ 4717.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.27

End Date:

2023.02.27

Last Calib.:

2023.02.27

Start Time: 13:35:01

End Time:

21:55:20

Time On Btm:

2023.02.27 @ 15:40:50

Time Off Btm:

2023.02.27 @ 20:15:20

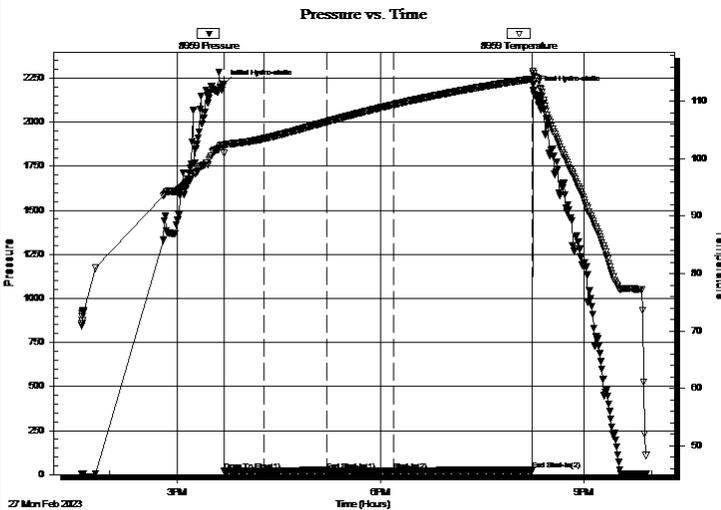
**TEST COMMENT:** 30-IF-Blow built to 1/4" & died @ 23 mins

60-ISI-No return

60-FF-No blow

120-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.50	102.39	Initial Hydro-static
1	20.84	100.95	Open To Flow (1)
36	21.96	103.50	Shut-In(1)
92	23.91	106.46	End Shut-In(1)
92	22.04	106.47	Open To Flow (2)
151	21.93	109.44	Shut-In(2)
274	25.18	113.93	End Shut-In(2)
275	2179.48	114.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud w / Oil specks	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69444

**DST#: 5**

Test Start: 2023.02.27 @ 13:35:00

## Tool Information

Drill Pipe:	Length: 4699.00 ft	Diameter: 3.80 inches	Volume: 65.91 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 65.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4716.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4684.00	
Shut In Tool	5.00			4689.00	
Hydraulic tool	5.00	1113		4694.00	
Jars	5.00	01-07		4699.00	
EM Tool	5.00			4704.00	
Safety Joint	3.00	-001		4707.00	
Packer	5.00			4712.00	33.00 Bottom Of Top Packer
Packer	4.00			4716.00	
Packer - Shale	0.00			4716.00	
Stubb	1.00			4717.00	
Recorder	0.00	8959	Inside	4717.00	
Recorder	0.00	8734	Outside	4717.00	
Perforations	8.00			4725.00	
Bullnose	5.00			4730.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69444

**DST#: 5**

Test Start: 2023.02.27 @ 13:35:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 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
1.00	100% Mud w / Oil specks	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

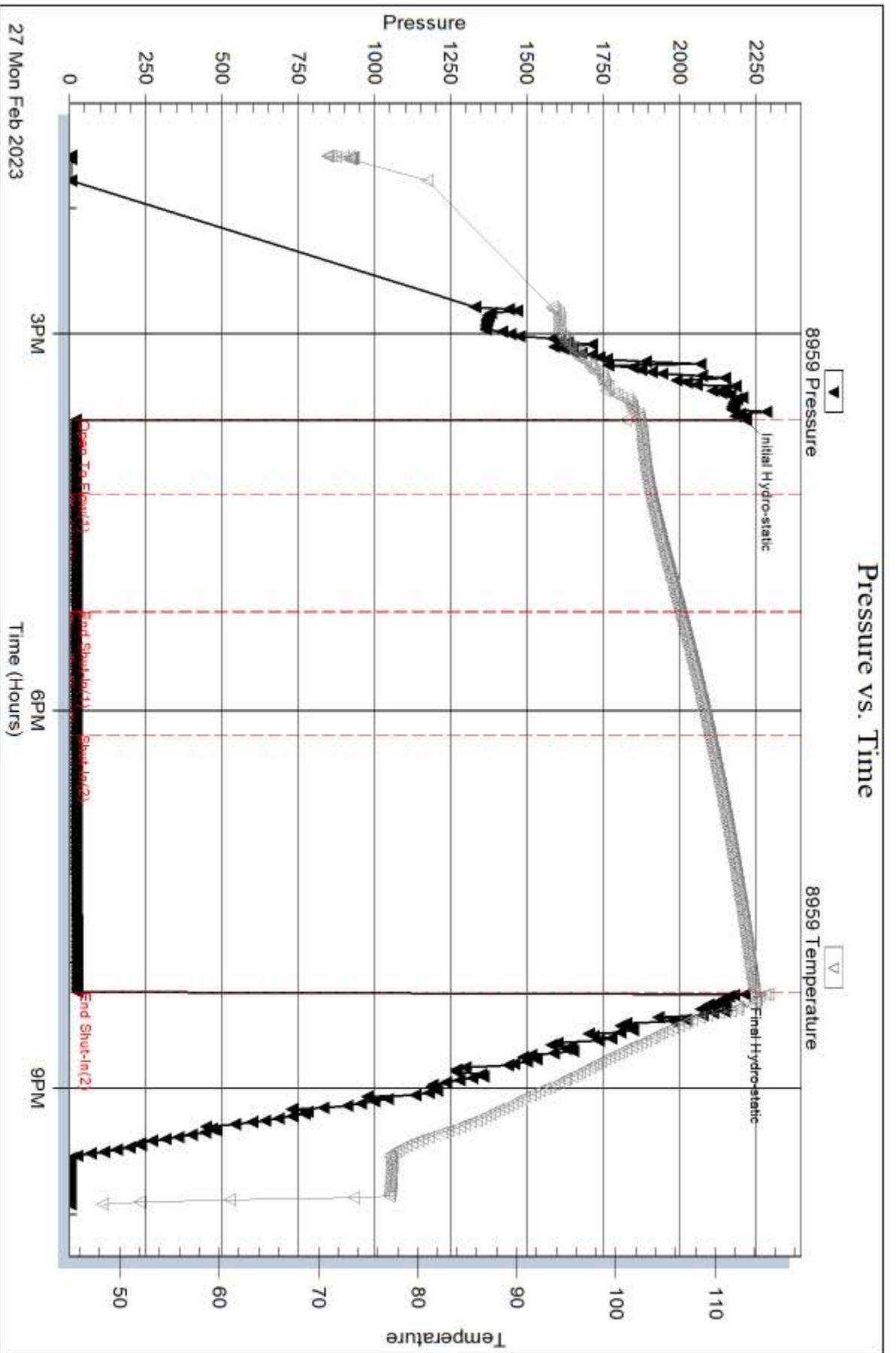
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

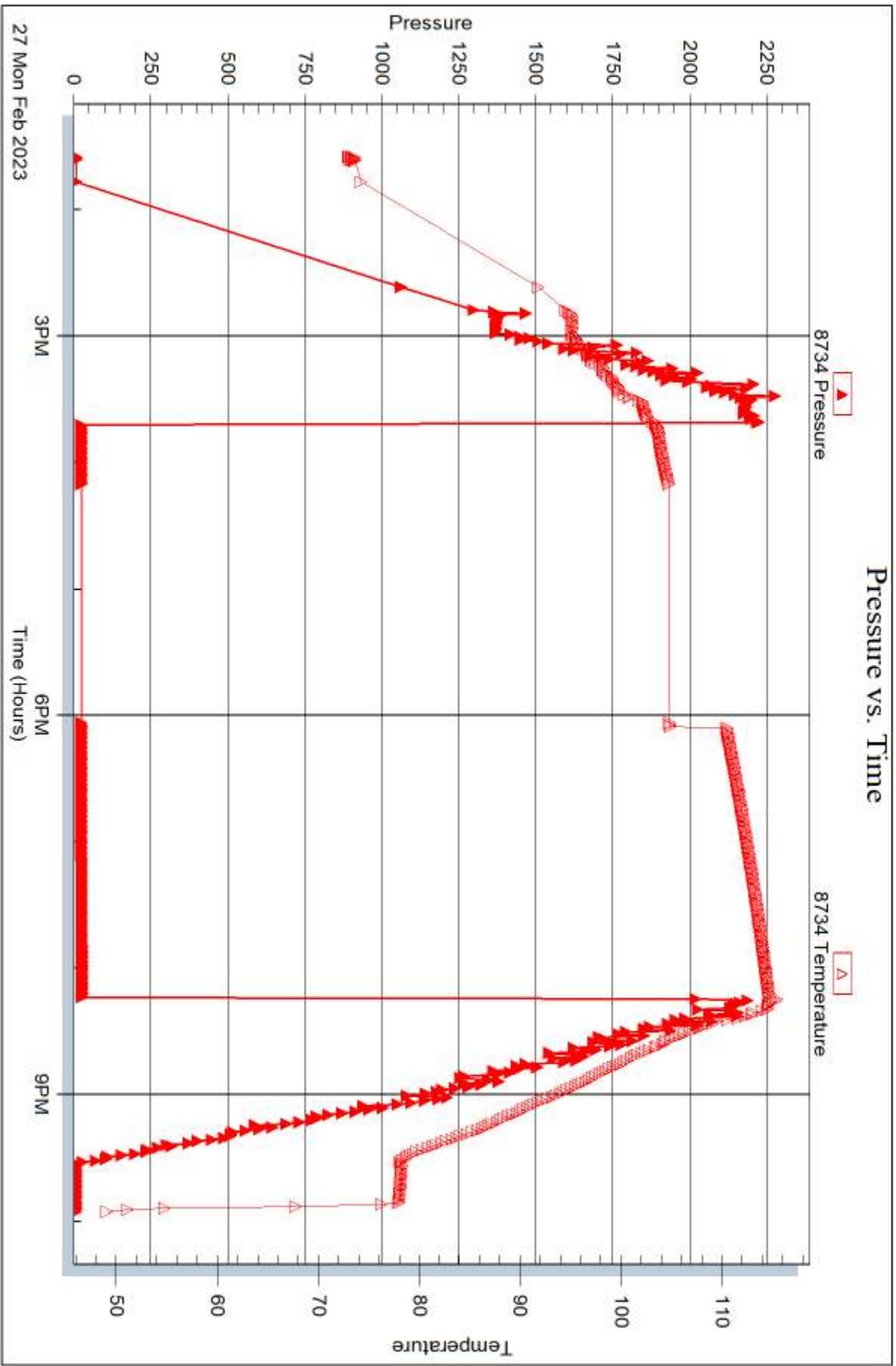


Serial #: 8734

Outside Raydon Exploration Inc

Beyfogle #1-10

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 69444

Printed: 2023.03.03 @ 16:01:30



## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118

ATTN: Ed Grieves

### **Breyfogle #1-10**

#### **10-21S.-31W. Finney,KS**

Start Date: 2023.02.28 @ 11:55:00

End Date: 2023.02.28 @ 20:39:40

Job Ticket #: 69445                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.03.03 @ 16:00:42



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raydon Exploration Inc  
 1601 NW Expressway  
 STE 1300  
 Oklahoma City, OK 73118  
 ATTN: Ed Grieves

**10-21S.-31W. Finney,KS**

**Breyfogle #1-10**

Job Ticket: 69445      **DST#: 6**  
 Test Start: 2023.02.28 @ 11:55:00

## GENERAL INFORMATION:

Formation: **Lower St.Louis Poros**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:50

Time Test Ended: 20:39:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4746.00 ft (KB) To 4756.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 4756.00 ft (KB) (TVD)

2893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8734      Outside**

Press@RunDepth: 215.30 psig @ 4747.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.28      End Date: 2023.02.28

Last Calib.: 2023.02.28

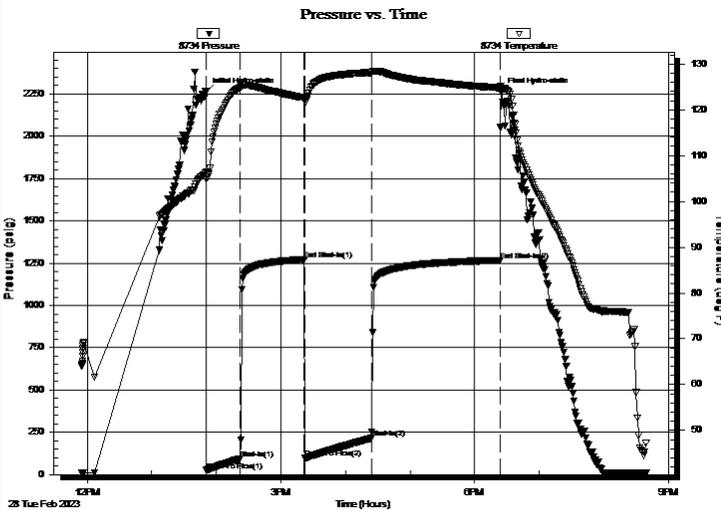
Start Time: 11:55:01      End Time: 20:39:40

Time On Btm: 2023.02.28 @ 13:50:40

Time Off Btm: 2023.02.28 @ 18:25:00

**TEST COMMENT:** 30-IF-B.O.B (11 inches) @ 30 mins (blow built to 11 1/4")  
 60-ISI-No return  
 60-FF-Blow built to 4 1/2"  
 120-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.46	106.32	Initial Hydro-static
1	24.58	104.94	Open To Flow (1)
32	93.48	124.82	Shut-In(1)
91	1271.72	122.61	End Shut-In(1)
92	97.06	121.90	Open To Flow (2)
154	215.30	128.13	Shut-In(2)
273	1266.25	124.82	End Shut-In(2)
275	2259.58	124.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	MSW w/Oil Scum 5%M, 95%W	2.52
195.00	GOSMCW 7%G,2%O,30%M,61%W	2.74

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69445

**DST#: 6**

Test Start: 2023.02.28 @ 11:55:00

## Tool Information

Drill Pipe:	Length: 4731.00 ft	Diameter: 3.80 inches	Volume: 66.36 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 66.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4746.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4714.00	
Shut In Tool	5.00			4719.00	
Hydraulic tool	5.00	1113		4724.00	
Jars	5.00	01-07		4729.00	
EM Tool	5.00			4734.00	
Safety Joint	3.00	-001		4737.00	
Packer	5.00			4742.00	33.00 Bottom Of Top Packer
Packer	4.00			4746.00	
Packer - Shale	0.00			4746.00	
Stubb	1.00			4747.00	
Recorder	0.00	8959	Inside	4747.00	
Recorder	0.00	8734	Outside	4747.00	
Perforations	6.00			4753.00	
Bullnose	3.00			4756.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Raydon Exploration Inc

**10-21S.-31W. Finney,KS**

1601 NW Expressway  
STE 1300  
Oklahoma City, OK 73118  
ATTN: Ed Grieves

**Breyfogle #1-10**

Job Ticket: 69445

**DST#: 6**

Test Start: 2023.02.28 @ 11:55:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 18500 ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MSW w /Oil Scum 5%M, 95%W	2.525
195.00	GOSMCW 7%G,2%O,30%M,61%W	2.735

Total Length: 375.00 ft      Total Volume: 5.260 bbl

Num Fluid Samples: 0

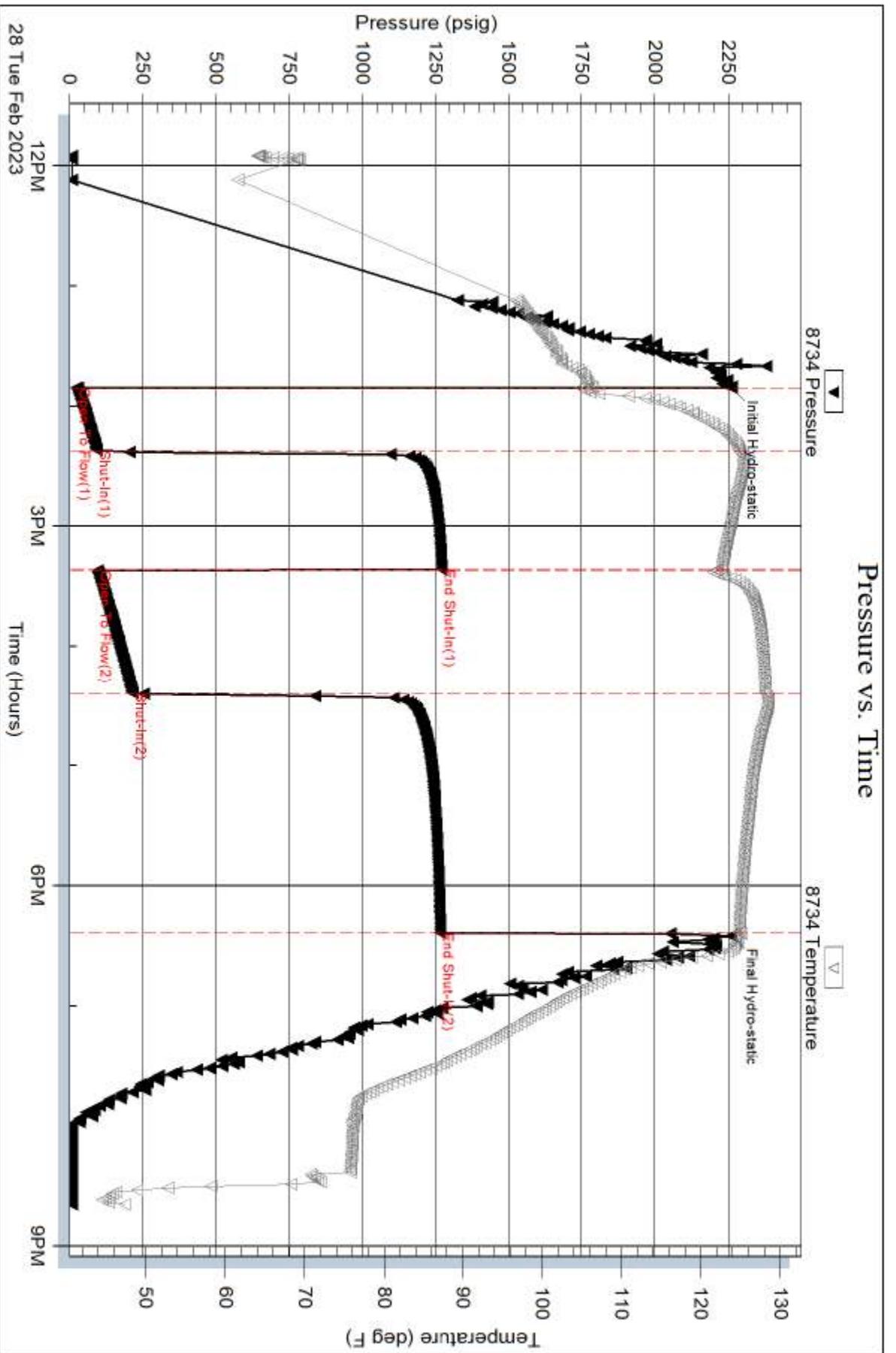
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.548 @ 48.5 degs = 18,500 PPM



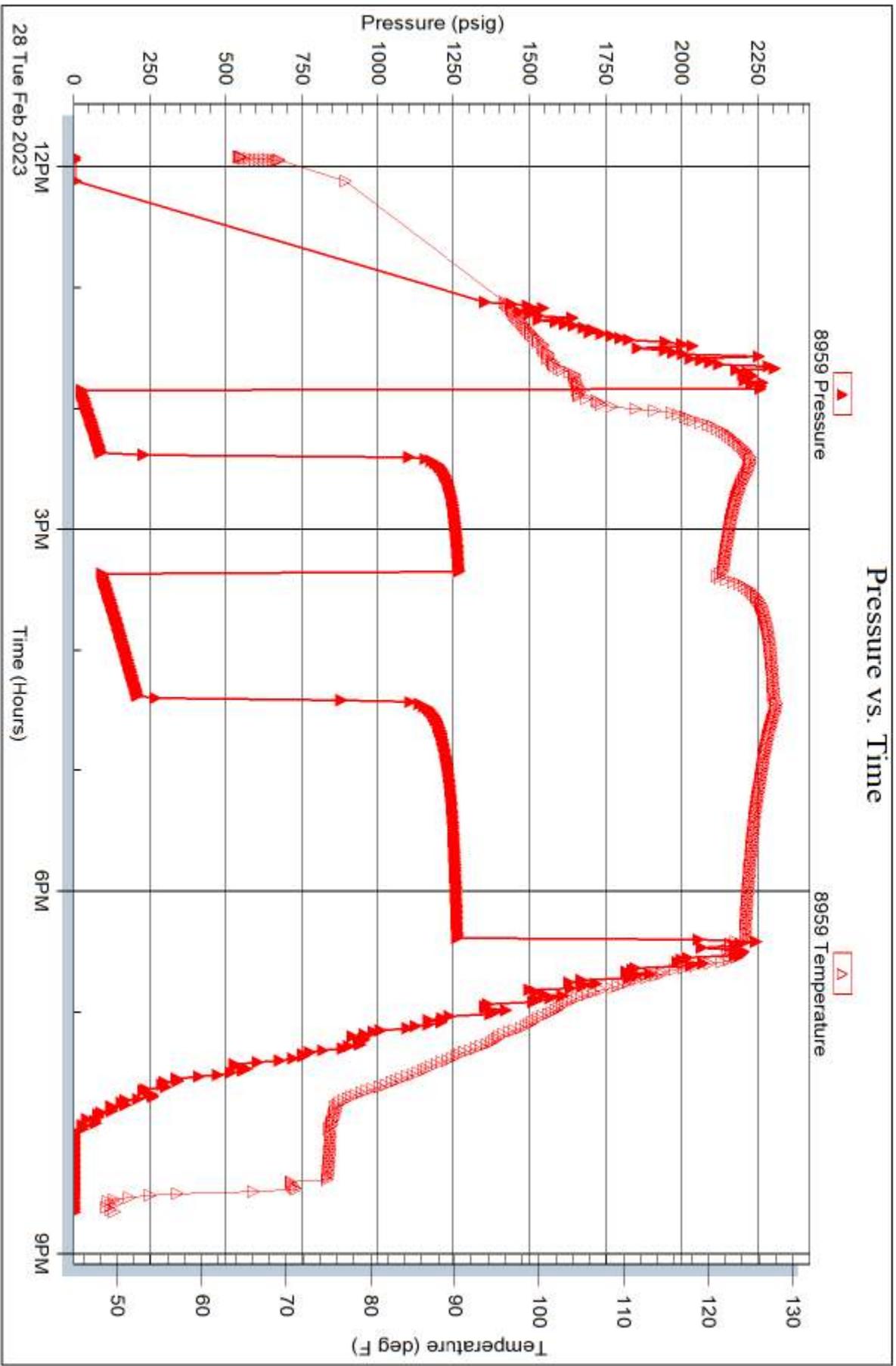
Serial #: 8959

Inside

Raydon Exploration Inc

Breyfogle #1-10

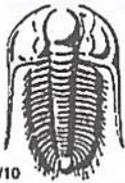
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 69445

Printed: 2023.03.03 @ 16:00:42



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69440**

Well Name & No. Bryson #1-10 Test No. 1 Date 2-23-23  
 Company Raydon Explorations, INC. Elevation ~~290~~ 290 KB 2893 GL  
 Address 1601 NW. Expressway STE 1300 Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Grier Rig Dux #1  
 Location: Sec. 10 Twp 21S. Rge. 31W. Co. Finney State KS.

Interval Tested 4522-4540 Zone Tested Pawnee  
 Anchor Length 18' Drill Pipe Run 4508 Mud Wt. 9.0  
 Top Packer Depth 4517 Drill Collars Run — Vis 66  
 Bottom Packer Depth 4522 (Shale) Wt. Pipe Run — WL 5.6  
 Total Depth 4540 Chlorides 1100 ppm System LCM #4

Blow Description IF - Blow built to 1/2" & died @ 26 mins.  
ISE - No return.  
FE - No blow  
FSE - No return.

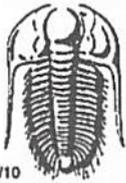
Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 111° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2210  Test 1950 T-On Location 12:45  
 (B) First Initial Flow 25  Jars 300 T-Started 13:30  
 (C) First Final Flow 27  Safety Joint T-Open 16:05  
 (D) Initial Shut-In 54  Circ Sub T-Pulled 20:05  
 (E) Second Initial Flow 26  Hourly Standby T-Out 22:05  
 (F) Second Final Flow 27  Mileage 62 RT 108.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 124  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2200  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer 250  EM Tool \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 120  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 2608.50  Accessibility \_\_\_\_\_ Sub Total 0  
 Total 2608.50 MP/DST Djsc'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

NO. **69441**

Well Name & No. Bruce Eagle #1-10 Test No. 2 Date 2-24-23  
 Company Raydon Exploration INC Elevation 2901 KB 2893 GL  
 Address 1661 NW Expressway, STE 1300 Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Gricevs Rig Duketh  
 Location: Sec. 10 Twp 21S. Rge. 31W. Co. Finney State KS.

Interval Tested 4543-4560 Zone Tested Ft. Scott  
 Anchor Length 17' Drill Pipe Run 4541 Mud Wt. 9.0  
 Top Packer Depth 4538 Drill Collars Run — Vis 55  
 Bottom Packer Depth 4543 (Shale) Wt. Pipe Run — WL 5.6  
 Total Depth 4560 Chlorides 1100 ppm System LCM 64

Blow Description IF - Blow built to 1/2" reduced to 1/4"

ISI - No return.

FF - No blow

ESI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>			<u>100</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 2 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 2185
- (B) First Initial Flow 25
- (C) First Final Flow 27
- (D) Initial Shut-In 48
- (E) Second Initial Flow 27
- (F) Second Final Flow 27
- (G) Final Shut-In 59
- (H) Final Hydrostatic 2167

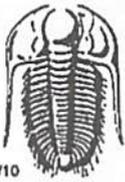
- Test 1950
- Jars 300
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 62 RT 108.50
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2608.50

- T-On Location 12:00
- T-Started 13:05
- T-Open 15:03
- T-Pulled 19:03
- T-Out 21:57
- Comments
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2608.50
- MP/DST Disc't

Approved By \_\_\_\_\_

Our Representative Martin Adams

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69442**

Well Name & No. Brey Eagle #1-10 Test No. 3 Date 2-25-23  
 Company Raydon Exploration Inc Elevation 2901 KB 2893 GL  
 Address 1601 NW Expressway, STE 1300 Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Grievors Rig Duke #1  
 Location: Sec. 10 Twp 21S Rge. 31W Co. Finney State KS

Interval Tested 4638 - 4660 Zone Tested Atoka  
 Anchor Length 22' Drill Pipe Run 4635 Mud Wt. 8.9  
 Top Packer Depth 4633 Drill Collars Run — Vis 55  
 Bottom Packer Depth 4638 (Shale) Wt. Pipe Run — WL 5.6  
 Total Depth 4660 Chlorides 1100 ppm System LCM BH  
 Blow Description IF - B.O.B (11 inches) @ 7 mins (blow increased to 48 1/4")

ISI - No return

FF - B.O.B @ 8 mins (blow built to 42")

FSI - Return blow built to B.O.B @ 93 mins (blow built to 14 3/4")

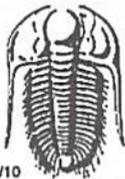
Rec	Feet of		%gas	%oil	%water	%mud
<u>30</u>	<u>GMCO</u>	<u>50</u>	<u>30</u>		<u>80</u>	
<u>315</u>	<u>CGO</u>	<u>20</u>	<u>80</u>			
<u>0</u>	<u>1820' GIP</u>					

Rec Total 345 BHT 117° Gravity 29.4 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2231  Test 1950 T-On Location 15:20  
 (B) First Initial Flow 40  Jars 300 T-Started 15:30  
 (C) First Final Flow 62  Safety Joint — T-Open 17:17  
 (D) Initial Shut-In 1209  Circ Sub — T-Pulled 21:47  
 (E) Second Initial Flow 62  Hourly Standby — T-Out 00:40  
 (F) Second Final Flow 125  Mileage 62 RT 108.50 Comments —  
 (G) Final Shut-In 1202  Sampler —  
 (H) Final Hydrostatic 2225  Straddle —  EM Tool —  
 Initial Open 30  Shale Packer 250  Ruined Shale Packer —  
 Initial Shut-In 60  Extra Packer —  Ruined Packer —  
 Final Flow 60  Extra Recorder —  Extra Copies —  
 Final Shut-In 120  Day Standby — Sub Total 0  
 Accessibility — Total 2608.50  
 Sub Total 2608.50 MP/DST Disc't —

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69443**

Well Name & No. Brey Fork #1-10 Test No. 4 Date 2-26-23  
 Company Raydon Exploration INC Elevation 2901 KB 2893 GL  
 Address 1601 NW Expressway, STE 1300, Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Grivics Rig Duke #1  
 Location: Sec. 10 Twp 21S. Rge. 31W. Co. Finney State KS.

Interval Tested 4682-4700 Zone Tested Upper St. Louis.  
 Anchor Length 13' Drill Pipe Run 4667 Mud Wt. 8.9  
 Top Packer Depth 4677 Drill Collars Run — Vis 60  
 Bottom Packer Depth 4682 (Shale) Wt. Pipe Run — WL 5.6  
 Total Depth 4700 Chlorides 1000 ppm System LCM 5#

Blow Description IF - B.O.B (11 inches) @ 17 mins (blow built to 23 1/4")  
ISI - Return blow built to 1 1/2 & reduced to 1 1/4"  
FF - B.O.B @ 9 mins (blow built to 49 1/4")  
FJI - Return blow built to 6" & reduced to 4 1/2"

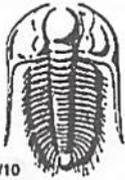
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GMCO</u>	<u>42</u>	<u>33</u>	<u>25</u>	
<u>90</u>	<u>CGO</u>	<u>40</u>	<u>60</u>		
<u>0</u>	<u>400' GIP</u>				

Rec Total 150 BHT 118° Gravity 27.0 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2312</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>14:20</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>15:50</u>
(C) First Final Flow <u>48</u>	<input checked="" type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>17:47</u>
(D) Initial Shut-In <u>1204</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>22:17</u>
(E) Second Initial Flow <u>50</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>00:52</u>
(F) Second Final Flow <u>85</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT</u> 108.50	Comments <u>—</u>
(G) Final Shut-In <u>1198</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2218</u>	<input type="checkbox"/> Straddle <u>—</u>	

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input checked="" type="checkbox"/> EM Tool <u>—</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Day Standby <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Sub Total <u>0</u>
	Sub Total <u>2608.50</u>	Total <u>2608.50</u>
		MP/DST Disc't <u>—</u>

Approved By — Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69444**

Well Name & No. Breyfoote # 1-10 Test No. 5 Date 2-27-23  
 Company Raydon Exploration INC Elevation 2901 KB 2893 GL  
 Address 1601 NW Expressway, STE 1300, Oklahoma City, OK 73113  
 Co. Rep / Geo. Ed Grievos Rig Duke #1  
 Location: Sec. 10 Twp 21S. Rge. 31W. Co. Finney State KS.

Interval Tested 4716 - 4730 Zone Tested St. Louis Porosity  
 Anchor Length 14' Drill Pipe Run 4699 Mud Wt. 8.9  
 Top Packer Depth 4711 Drill Collars Run — Vis 60  
 Bottom Packer Depth 4716 (Shale) Wt. Pipe Run — WL 5.6  
 Total Depth 4730 Chlorides 1000 ppm System LCM 8#

Blow Description IF - Blow built to 1/4" + died @ 23 mins  
ISI - No return.  
FF - No blow  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud w/oil specks.</u>			<u>100</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 1 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2218</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>13:15</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>13:35</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>15:41</u>
(D) Initial Shut-In <u>24</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>20:11</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>21:56</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>62RT</u> 108.5	Comments <u>—</u>
(G) Final Shut-In <u>25</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2179</u>	<input type="checkbox"/> Straddle <u>—</u>	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input checked="" type="checkbox"/> EM Tool <u>—</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Day Standby <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Sub Total <u>0</u>
	Sub Total <u>2608.50</u>	Total <u>2608.50</u>
		MP/DST Disc't <u>—</u>

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69445

Well Name & No. Brey Eagle #1-10 Test No. 6 Date 2-28-23  
 Company Raydon Exploration, INC Elevation 2901 KB 2893 GL  
 Address 1601 NW Expressway, STE 1300, Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Grieves Rig Duke#1  
 Location: Sec. 10 Twp 21S. Rge. 31W. Co. Finney State KS.

Interval Tested 4746 - 4756. Zone Tested Lower St. Louis porosity  
 Anchor Length 60' Drill Pipe Run 4731 Mud Wt. 8.9  
 Top Packer Depth 4741 Drill Collars Run — Vis 60  
 Bottom Packer Depth 4746 (Shale) Wt. Pipe Run — WL 5.6  
 Total Depth 4756 Chlorides 1000 ppm System LCM 8#  
 Blow Description IF - B.O.R. (11 inches) @ 30 mins (blow built to 11 1/4")  
ISI - No return  
FF - Blow built to 4 1/2"  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Feet of MSW w/oil skum.</u>		<u>95</u>	<u>5</u>	
<u>195</u>	<u>Feet of GOSMCW</u>	<u>7</u>	<u>2</u>	<u>61</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 375 BHT 124 Gravity — API RW .548 @ 48.5 °F Chlorides 18,500 ppm

(A) Initial Hydrostatic <u>2261</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>11:30</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>11:55</u>
(C) First Final Flow <u>93</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>13:51</u>
(D) Initial Shut-In <u>1272</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:21</u>
(E) Second Initial Flow <u>97</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:40</u>
(F) Second Final Flow <u>215</u>	<input checked="" type="checkbox"/> Mileage <u>62 RT X 2</u> 217	Comments <u>Loaded @ 23:00</u>
(G) Final Shut-In <u>1266</u>	<input type="checkbox"/> Sampler	<u>3-1-23</u>
(H) Final Hydrostatic <u>2260</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>120</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 2.25h</u>	Sub Total <u>800</u>
	<input type="checkbox"/> Accessibility	Total <u>3517</u>
	Sub Total <u>2717</u>	MP/DST Disc't

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

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

Well Name: Raydon Explor.- Breyfogle 1-10  
Well Id:  
Location: Sec 10 T21S, R31W, Finney County, Kansas  
License Number: 15-055-22577  
Spud Date: Feb. 16th 2023  
Surface Coordinates: 2310' FSL & 1650' FWL  
Region: Wildcat  
Drilling Completed: March 2, 2023

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2893' K.B. Elevation (ft): 2905'  
Logged Interval (ft): 3500' To: 5000' Total Depth (ft): 5000'  
Formation: Lansing, Marmaton, Miss.  
Type of Drilling Fluid: Natural Chemical

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

**OPERATOR**

Company: RAYDON EXPLORATION  
Address: 1601 NW Expressway, # 1300  
Oklahoma City, Oklahoma 73118-1462  
Steve Raybourn

**GEOLOGIST**

Name: Edwin H, Grieves/ Tim Hedrick  
Company: Grieves & Co.  
Address: PO Box 3125  
Edmond, Okla 73083-3125  
405-926-8027

**Daily Drilling Reports**

2-19 TRAVEL & RIG UP 3500' @ 10PM  
2-20 BIT TRIP START DRILLING 3500' 4:11 AM  
2-20 7 AM 3570'  
2-21 7 AM 4031'  
2-22 7 AM 4339'  
2-23 7 AM 4540' DST #1 4522'-4540'  
2-24 7 AM 4560' DST #2 4543'-4560'  
2-25 7 AM 4645' DST #3 4638'-4660'  
2-26 7 AM 4680' DST #4 4682'-4700'  
2-27 7 AM 4712' DST #5 4716'-4730'  
2-28 7AM 4756' DST #6 4746'-4756'  
3-01 7AM 4810'  
3-02 7 AM 5000' TRIPPING OUT FOR LOGS

**DST #1 4522' - 4540'**

PAWNEE 30-60-30-120 IF-BLT TO 1/2' DIED IN 26MIN./ISI-NB /FF- NB / FSI-NB  
IH- 2210 / FH- 2200/ IF 25 TO 27/ISI- 54/FF- 26 TO 27/FSI-124  
RECOVERED 2' MUD - 100%MUD BHT 109 DEGREE

**DST #2 4543' - 4560'**

FT.SCOTT 30-60-30-120 IF- BLT TO 1/2 REDUCED TO 1/4"  
IH- 2185' / FH-2167/ IF- 25 TO 27/ ISI-48/FF-27 TO 27/FSI-57  
RECOVERED 2' MUD 100% MUD BHT 109 DEGREE

**DST #3 4638' - 4660**

ATOKA - 4638' -4660' 30 60 60 120  
IO - WSB, BOB IN 7 MIN. INCREASED TO 48 1/4"  
FO- WSB, BOB IN 8 MIN. INCREASED TO 42"  
RECOV. 1820' GAS 100%G./ 300' OIL- 80% OIL, 20% GAS/ 30' CGO, 30% G., 30 O.,50%G, 20% MUD  
IH- 2231#, IFP- 40-62#, ISIP- 1209#, FFP- 62-125#, FSIP-1202#, FHP 2225# GRAVITY CORR. 29.4 BHT- 117 DEGREE

**DST #4 4682' - 4700'**

UPPER ST.LOUIS - 30 60 60 120  
IO - BOB IN 17 MIN. INCREASED TO 23 1/4"  
FO- BOB IN 9 MIN. INCREASED TO 47 1/4"  
RECOV.400' GAS 100%G./90' OIL- 60%O.40%GAS  
60' GMCO 42% G., 33 O.,25%MUD  
IH- 2312#, IFP- 31-48#, ISIP- 1204#, FFP- 50-85#, FSIP-1198#, FHP 2218# GRAVITY CORR. 27.0 BHT- 118 DEGREE

**DST #5 4716' - 4730'**

ST.LOUIS 30-6-30-120 IF-BLT TO 1/2' DIED IN 26MIN./ISI-NB /FF- NB / FSI-NB  
IH- 2210 / FH- 2200/ IF 25 TO 27/ISI- 54/FF- 26 TO 27/FSI-124  
RECOVERED 2' MUD - 100%MUD BHT 109 DEGREE

**DST #6 4746-4756'**

ST. LOUIS LOWER 30-60-60-120 IF-BLT TO 11" 30MIN./ISI-NB /FF- BUILT TO 4 1/4" / FSI-NB  
IH- 2261 / FH- 2260/ IF 25 TO 93/ISI- 1272 /FF- 97 TO 215 /FSI-1266  
RECOVERED 80' MSW,95%W, 5%M./ 195' GOSMCW - 7%GAS, 61%W., 30% M. BHT 124 DEGREE TESTER RW  
.548@48.5 DEGREES 18,500/ SYSTEM CHL. 1000/ MUD MAN TITRATED@ 38,000 CHLORIDES

**Formation Tops**

<b>SAMPLE TOPS</b>	<b>E-LOG TOPS</b>
BASE HEEBNER 3946' -1041'	3942' -1047'
TORONTO 3961' -1056'	3956' -1051'
LANSING 4030' - 1125'	4039' -1134'
KANSAS CITY 4282'- 1377'	4278' -1373'
MARMATON 4421'- 1516'	4426' -1521'
PAWNEE 4515' - 1510'	4509' -1604'
FT.SCOTT 4538' - 1633'	4534' -1629'
CHEROKEE 4558' - 1653'	4554' -1649'
ST. GEN. 4663' - 1758'	4658' -1753'
ST. LOUIS 4686' - 1781'	4685' -1770'
SPERGEN 4943' - 2803'	4938' -2033'
R.T.D. 5000'	

## Daily Mud Reports

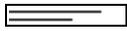
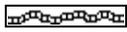
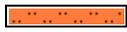
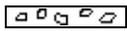
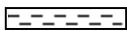
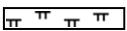
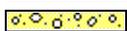
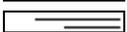
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TIME	830A	830A	830A	830A	830A	830A	900A	830	830	830
MW	8.9	9.4	9.2	9.0	9.0	8.9	9.0	8.9	8.9	9.0
VIS	69	73	62	71	63	52	71	73	71	69
PV	21	21	29	30	27	22	24	26	27	27
YP	11	16	16	18	14	14	14	14	14	15
G/S	8/19	7/18	8/17	9/19	6/14	4/12	7/16	8/17	8/17	8/17
WL	20	6.4	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.2
CAKE	2	1	1	1	1	1	1	1	1	1
CHL	1.7K	1.4K	1.1K	1.1K	1.1K	950	1K	1K	1K	1.2K
HRD	240	120	80	80	80	80	80	80	80	120
LCM	4	6	6	8	8	6	6	6	8	8
PH	10.5	10.4	10.4	10.5	10.5	10.5	10.5	10	10.5	10.5

## Deviation / CFS Points

8 5/8" CASING SET TO 632'

DEV SRVY	CFS POINTS
1. 633' - 1/4 DEG	1. 3975'    9. 4460'    17.4730'
2. 1659' 1 DEG	2. 4040'    10.4480'    18.4756'
3. 3500' 3/4 DEG	3. 4200'    11.4520'    19. 4770'
4. 4540' 1 DEG	4. 4220'    12.4540'    20. 4860'
5. 4566' 1 DEG	5. 4310'    13.4560'    21. 4880'
6. 5000' 1 DEG	6. 4350'    14.4660'    22. 4943'
7.	7. 4390'    15.4680'    23. 5000'
	8. 4440'    16.4756'

## ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltyslts
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	

## ACCESSORIES

### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly



- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn

### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

## OTHER SYMBOLS

### POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

### SORTING

- Well
- Moderate
- Poor



Angular

### OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

### INTERVALS

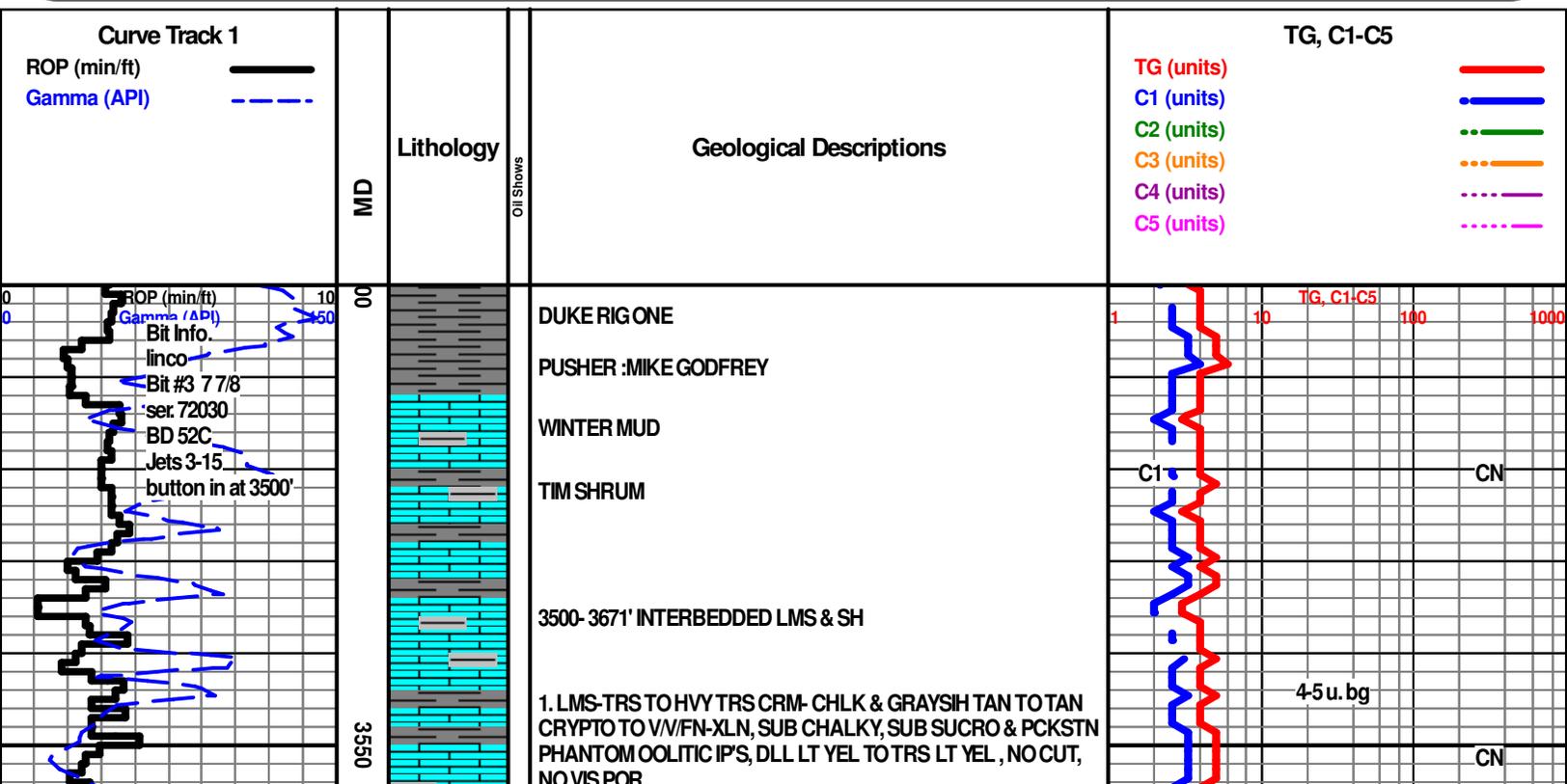
- Core
- Dst
- Dst

### ROUNDING

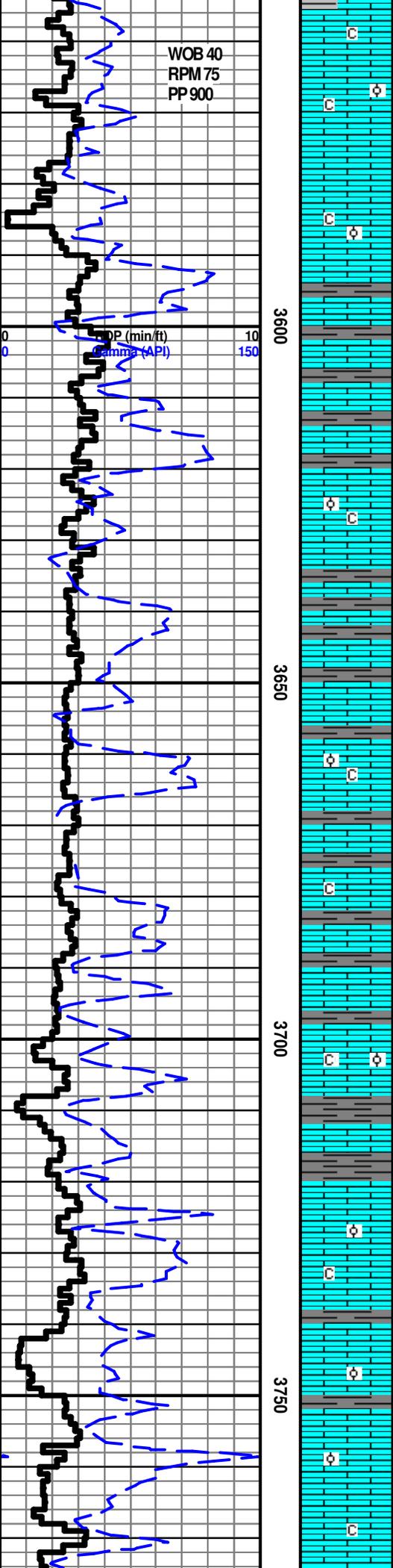
- Rounded
- Subrnd
- Subang

### EVENTS

- Rft
- Sidewall



WOB 40  
RPM 75  
PP 900



2. LMS- MED GRAY , V/ TO EXTRMLY SHLY,CRYPTO-XLN, SUB  
CHLK & OR SHALY & PACKSTONE, PHNTOM OOLITIC IP,  
GRAYS, NO FLUOR, NO CUT, NO VIS POR

3. SCATTERED SHALES MED TO DRK GRAY, V/ TO EXTRMLY  
CALC IPS

3671' -3700' SCATTERED SHALES MED TO DRK GRAY SIMILAR  
TO 3500-3671 W/ INCREASE IN #1 LMS

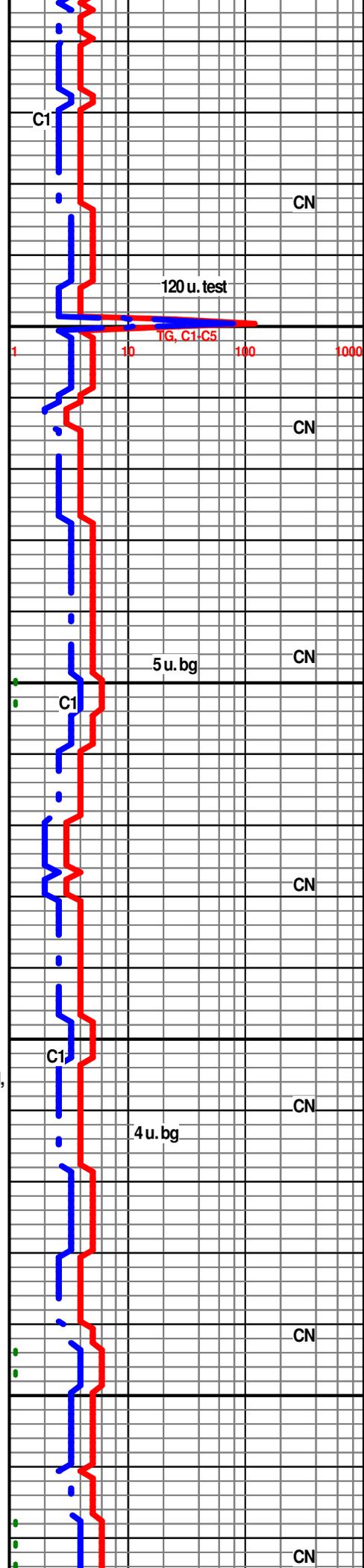
3700'- 3794' INTERBEDDED LMST & SCATTERED SHALES

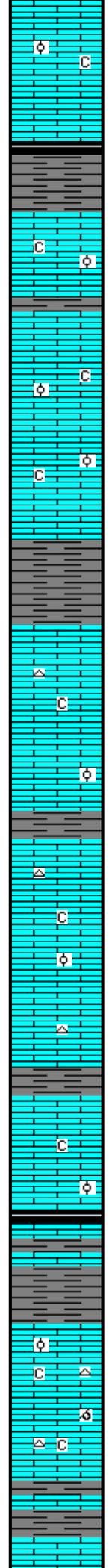
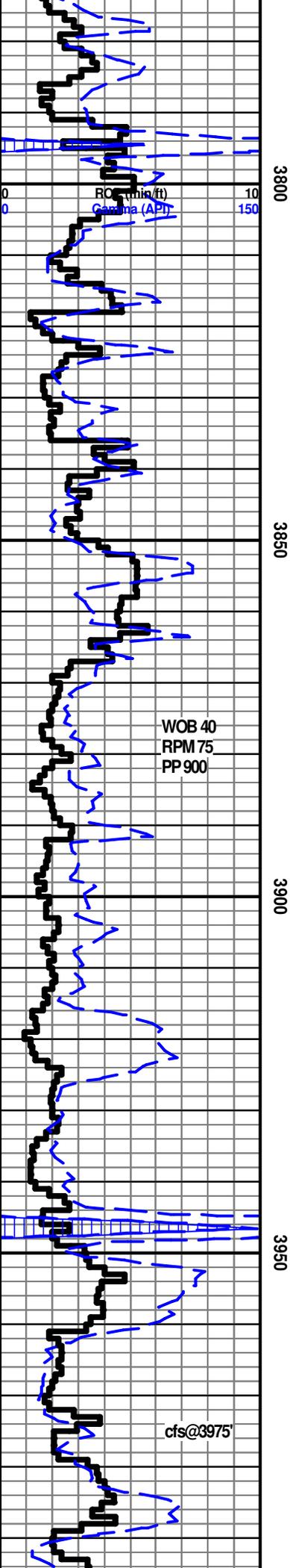
3. SCATTERED SHALES- MED TO DRK GRAY SLI TO VERY  
CALC

2. SLOWER DRLG LMS LT TO MED GRAY TO TAN ,CRYPTO-XLN,  
PHANTOM OOLITIC IP'S, NO FLUOR, NO CUT , NO VIS POR

1. FASTER DRILLING- LMS HVY TRS WHT TO CRM & TAN,  
GRAYISH IP'S,CRYPTO- TO VV/FN-XLN, SUB CHALKY, SUB  
CHALKY, SUB SUCRO TO SUCRO & PCKSTN, ABN PHANTOM  
OOLITIC, DLL LT YEL FLUOR IP'S, NO CUTS, HVY TRS W/ PR FR  
TO TRS GOOD MICRO PP POR IN SUCRO

4. SCATTERED TRS CHERT, CRM OPQUE





3794' 3795' SHALE V/ DRK GRY TO BLACK CARB LOOKING

3795' TO 3867' FASTER DRILLING- LMS HVY TRS WHT TO CRM & TAN, GRAYISH IP'S, CRYPTO- TO V/V/FN-XLN, SUB CHALKY, SUB CHALKY, SUB SUCRO TO SUCRO & PCKSTN, ABN PHANTOM OOLITIC, DLL LT YEL FLUOR IP'S, NO CUTS, HVY TRS W/ PR FR TO TRS GOOD MICRO PP POR IN SUCRO

SLOWER DRLG LMS LT TO MED GRAY TO TAN, CRYPTO-XLN, PHANTOM OOLITIC IP'S, NO FLUOR, NO CUT, NO VIS POR

3867'-3944' LMS- V/ TO EXTRMLY ABN WHT TO CRM-CHLK AND TAN CRYPTO TO V/V/FN-XLN, SU CHLK, SUB SUCRO TO V/ SUCRO, ABN PHNTMOOLITIC, DLL YEL TO DLL LT YEL FLUOR, NO CUT, ABN PR FR, FR TO GOOD PP TO MICRO PP POR, W/ POSS INTER-XLN POR, W/ TRS CHERT CRM TO GRAY OPQUE

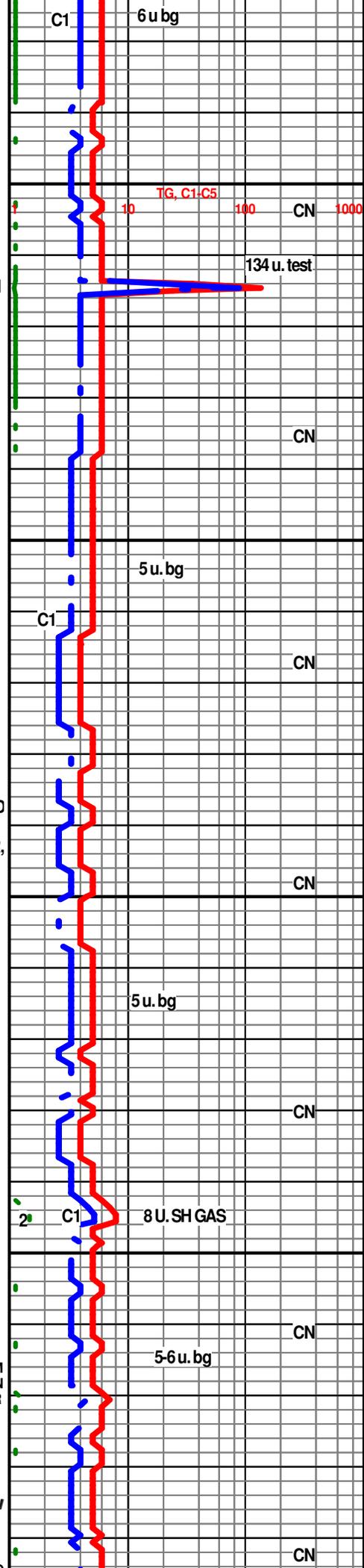
**HEEBNER SH. 3946 -1041**

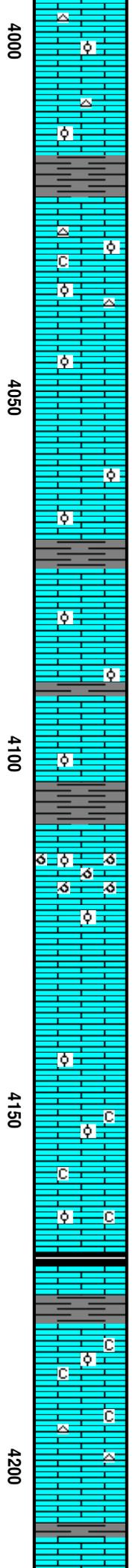
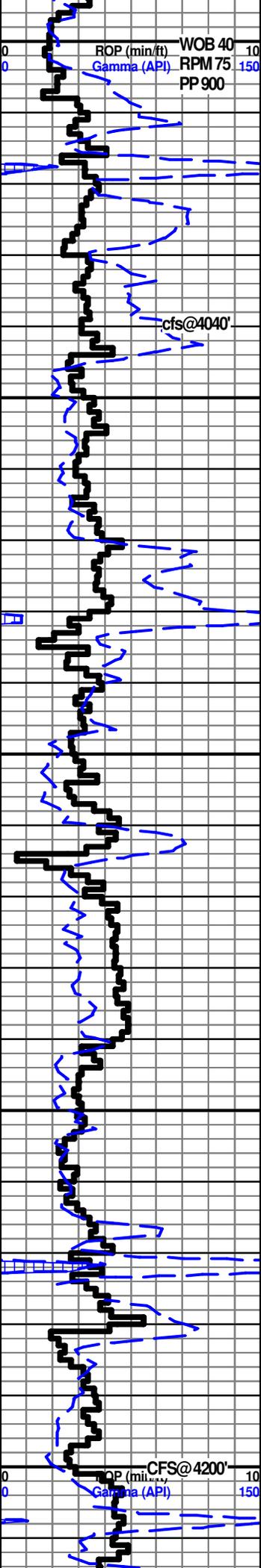
3944-3945- SH- BLK SFT CARB

**TORONTO 3961' - 1056'**

3961-3979' LMS EXTMLY ABN WHT TO CRM-CHLK & CRM TO TAN CRYPTO-V/V/FN-XLN, SUB CHLK, SUBSUCRO TO SUCRO & PCKSTN, ABN PHNTM OOLITIC TO SLI TRS PHNTM OOLICASTIC, DLL LT TO LT YEL FLUOR, NO CUT, ABN PR TO FR MICRO PP POR & SLI TRS PR TO FR PP POR W/ POSS INTER-XLN POR IP'S, TRS CHERT OFF WHT TO LT GRAY

3979-3996' LMS-LT TN TO TAN, CRYPTO TO V/V/FN-XLN, SUB SUCRO, PCKSTN TO SUB SUCRO TO LITHO GRAPHIC, DLL LT YEL FLUOR, NO CUT, NO VIS POR, W TRS CHERT OFF WHT OPQUE





3996 - 4006 LMS HVY TRS CRM TO WHT CHLK & TAN, SLI GRAYISH IPS, CRYPTO TO V/V/FN-XLN SUB CHLK, SUB SUCRO TO SUCRO & PCKSTN, ABN PHNTM OOLITIC, DLL LT YEL FLUOR, NO CUT, TRS PR TO SLI TRS FR MICRO PP POR W/ ABN CHERT, OFF WHT TO LT GRY

4008-4022' LMS-LT TN TO MED GRAY-SHLY, CRYPTO TO V/V/FN-XLN, SUB SUCRO, PCKSTN TO SUB LITHO GRAPHIC, DLL LT YEL FLUOR, NO CUT, NO VIS POR, W/ TRS V/DLL LT YEL FLUOR, NO CUT, NO VIS POR, INTERBD SH DRK GRY TO BLK CARB LOOKING, TRS CHERT OFF WHT OPQUE

**LANSING 4030' - 1125'**

4022' 4040' LMS-TRS WHT TO CRM CHLK, CRYPTO TO V/V/FN-XLN, TRS SUB CHLK, SUB SUCRO, PCKSTN TO SUB LITHO GRAPHIC, TRS PHNTM OOLITIC, ABN DLL LT YEL FLUOR, SLI TRS PR MICRO PP POR IP, SLI TRS CHERT, OFF WHT ORANGE OPQUE

4041-4113' INTERBEDDED LMS

1. LMS- HVY TRS TO ABN WHT TO CRM-CHLK & CRM LT TN CRYPTO-V/V/FN-XLN, SUB SUCRO TO SUCRO, PHANTOM OOLITIC IPS, DLL LT YEL TO DLL YEL FLOR IPS, NO CUT, SCATTERED TRS PR MICRO PP POR IP & TRS POSS INTER-XLN POR

2. LMS-LT GRY TO TAN CRYPTO-V/V/FN-XLN, TRS SUB SUCRO PCKSTN & SUB LITHOGRAPHIC, DUL YEL FLUOR IP, NO CUT, NO VIS POR

4113-4118' LMS- TAN CRYPTO- V/V/FN-XLN, SLI TO FRLY OOLICASTIC & OR OOLITIC MATRIX, SUB SUCRO TO SUCRO, DLL YEL FLUOR IPS, NO CUT, ABN PR FR GD TO EXCELENT OOLICASTIC & INTER-XLN POR

4118' TO 4141' LMS SLI TR WHT TO CRM-CHLK & LT GRY TO TAN CRYPTO-TRS V/V/FN-XLN TRS SUB SUCRO PCKSTN & SUB LITHOGRAPHIC, DLL YEL FLUOR IP, NO CUT, NO VIS POR

4141' - 4170' LMS SIMILAR TO 4118- 4141' W/ABN LMS V/TO EXTRMLY CHLKY-WHT TO CRM & CRM TO LT TN CRYPTO TO V.V/DN-XLN PHANTOM OOLITES IPS, DLL LT YEL FLUOR, NO CUT, SCATTERED TRS PR MICRO PP POR

4170-4172' SH- VERYDRK GRY TO BLACK CARB

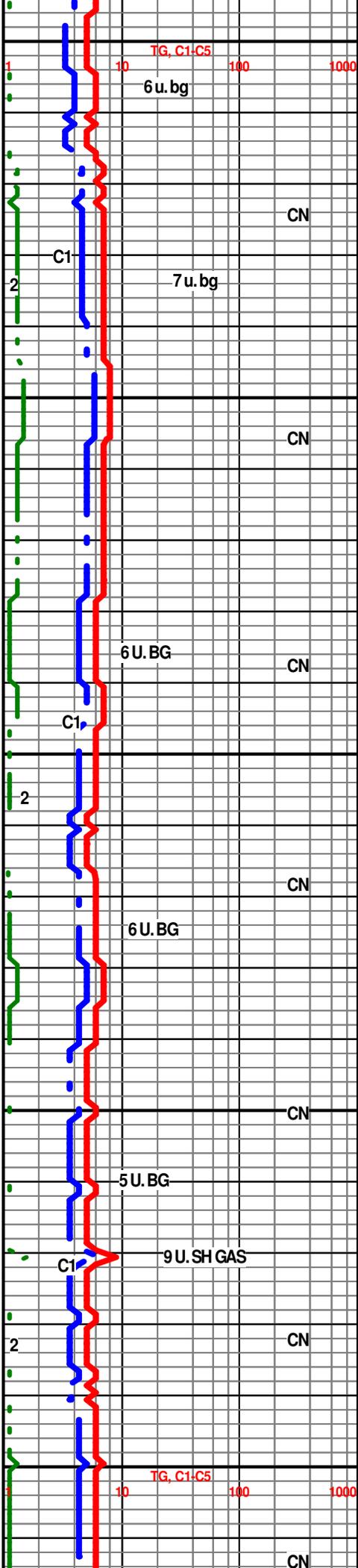
4172-4176' LMS SIMILAR TO 4141-4170'

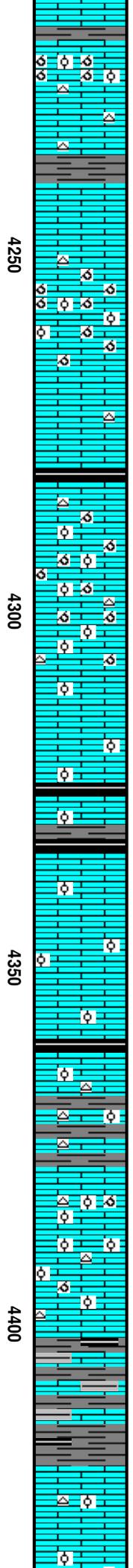
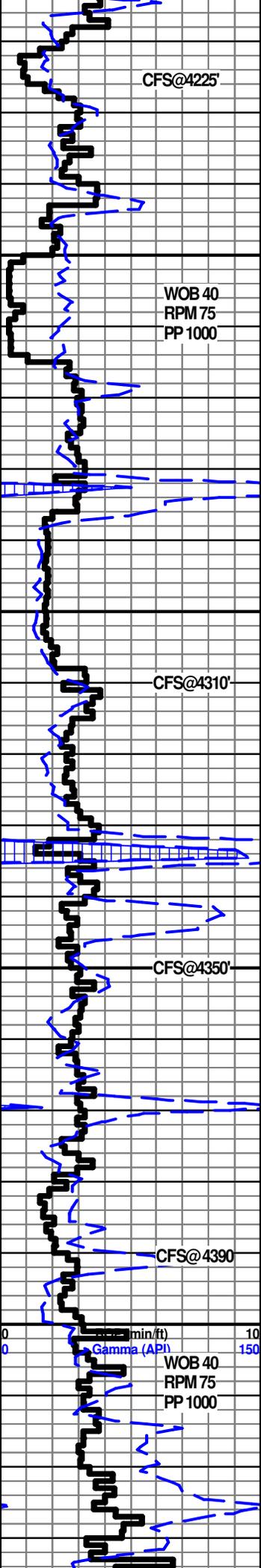
4176-4181' LMS - LT TO MED GRY-SH TO EXTRMLY SHLY GRDNG TO CALC SHALES, CRYPTO-XLN, NO FLUOR, NO CUT, NO VIS POR

4181- 4201' LMS - TRS TO HVY TRS WHT TO CRM-CHLK, CRM TO TAN CRYPTO-V/V/FN-XLN, TRS PHANTOM OOLITIC, SUB CHLK, SUB SUCRO, PCKSTN & TRS SUB LITHO, DLL LT TO LT YEL FLUOR, NO CUT, NO VIS POR, W/ TRS CHERT OFF WHT LT GTY OPQUE

4201'-4209' LMS- CRM TO TAN TO LT GRY, CRYPTO-V/V/FN-XLN, SUB CHLK, SUB SUCRO & PCKSTN, SUB LITHO, DLL LT YEL FLUOR, NO CUT, NO VIS POR

4209-4211' SH- VDRK GRY TO BLK CARB





4218-4220' SH -V/ DRK GRY TO BLACK CARB  
 4221-4218' LMS- SIMILAR TO 4201 TO 4209 W/ INCREASE IN LT GRY

4228-4243' LMS- TRS WHT TO CRM- CHLK & LT TAN CRYPTO-V//FN-XLN W/ TRS MED TO COARSE CALC CRYSTALS & FRAGS, V/ TO EXTRMLY OOLITIC & OOLICASTIC MATRIX, SUB SUCRO SUCRO & PCKSTN, DLL LTYEL FLUOR, NO CUT, ABN PR FR GD TO EXCEL OOLICASTIC POR, HVY TRS PR F R GD MICRO PP INTER-XLN POR, TRS CHERT LT GRY OPQUE

4243-4265' LMS- HVY TRS WHT TO CRM-CHLK & TAN CRYPTO-V//FN-XLN, V/ TO EXTNLY OOLITIC & V/ TO EXTRMLY OOLICASTIC MATRIX, SUB CHLK, SUB SUCRO PCKSTN DLL YEL FLUOR IP, NO CUT, ABN PR FR GD TO EXCEL OOLICASTIC POR, TRS INTER-XLN POR

4265-4281' LMS LT GRY TO TANISH LTGRY, CRYPTO-XLN, PCKSTN SUB LITHO, DLL YEL FLUOR IP, NO CUT, NO VIS POR

**KANSAS CITY, 4282' -1377'**

4281' 4282' SH V/ DRK GRY TO BLCK CARB

4281'-4286' LMS- SIMILAR TO 4265' 4281 TRS MED GRY

4281-4308' LMS- ABN WHT TO CRM CHLK & LT TAN TO TAN CRYPTO-V//FN-XLN, V/ TO EXTRMLY OOLITIC & OR V/ TO EXTRMLY OOLICASTIC MATRIX, SUB CHLK, SUB SUCRO & PCKSTN, TRS MED TO COARSE WHT CALCITE XLS & FRGS, DLL YEL FLUOR IP, NO CUT, ABN PR FR GD TO EXCEL OOLICASTIC & MICRO PP POR QUEST PERM IP, W/ TRS CHERT LT GRY OPQUE

4308' 4326' LMS- ABN WHT TO CRM - CHLK, CRM TAN SUB CHLK, SUB SUCRO & PCKSTN, OOLITIC IPS, LT TO MED GRY CRYP TO-XLN PCKSTN TO SUB LITHO, OOLITIC IPS, W/ GRY OOLITES, DLLYEL.FLUORIP, NO CUT, NO VIS POR

4326'-4327' SH - BLK SFT CARB

4327' -4332' LMS SIMILAR 4308-4326'

4332-4334' SH- BLK SFT CARB

4334' - 4361' LMS- WHT TO CRM - CHLK, CRM TAN SUB CHLK, SUB SUCRO & PCKSTN, OOLITIC IP'S, LT TO MED GRY CRYPTO-XLN PCKSTN TO SUB LITHO, OOLITIC IP'S, DLLYEL FLUOR IP, NO CUT, NO VIS POR

4361-4362' SH- BLK SOFT CARB

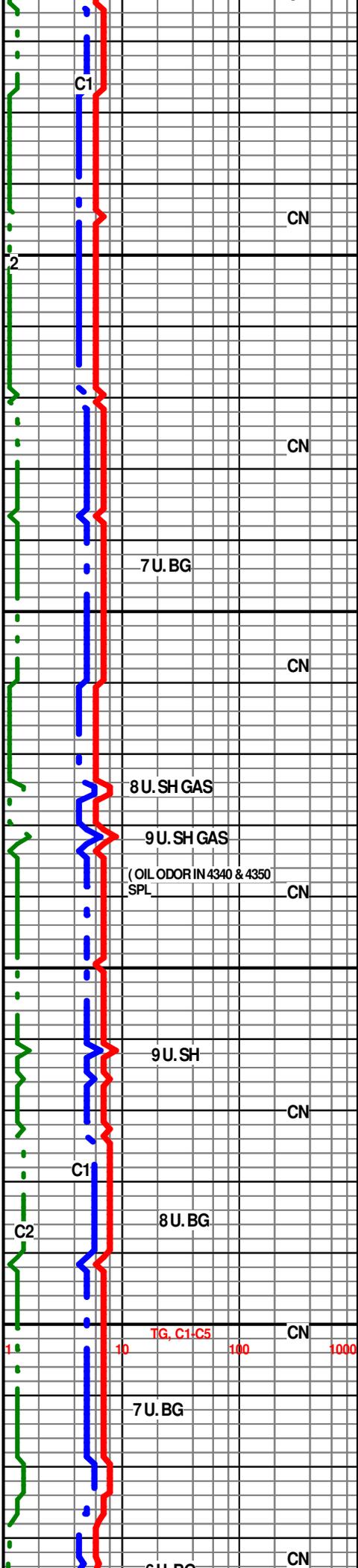
4362-4381' LMS SIMILAR TO 4308-4326' W/ HVY TRS CHERT IP'S OFF WHT TO LT GRY OPQUE

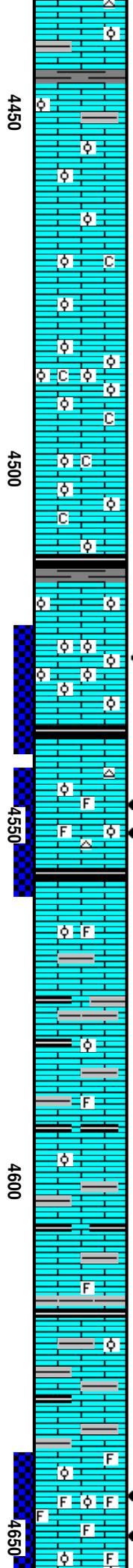
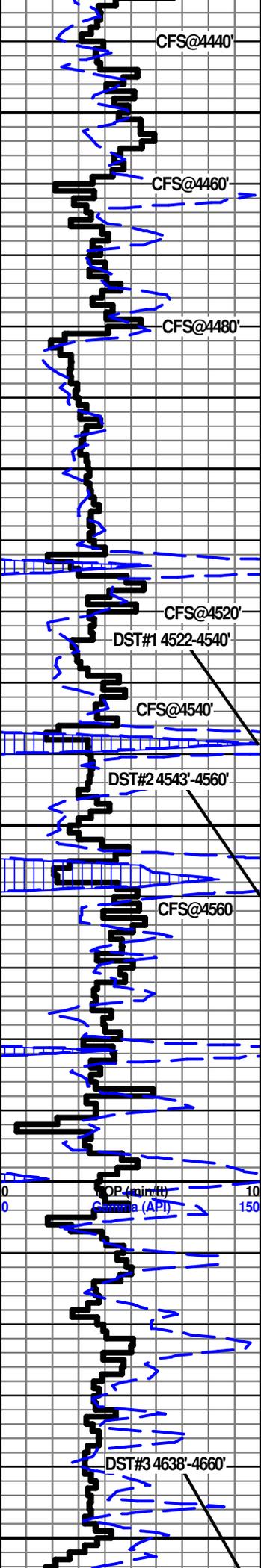
4382'-4401' LMS- ABN WHT TO CRM CHLK & LT TAN TO TAN CRYPTO-V//FN-XLN, V/ ABN EXTRMLY OOLITIC & TRS SLI OOLICASTIC MATRIX, SUB CHLK, SUB SUCRO SUCRO & PCKSTN, DLL YEL FLUOR IP, NO CUT, HVY TRS PR FR SLI TRS GD OOLICASTIC & MICRO PP POR, W/ TRS CHERT LT GRY OPQUE

4401-4421' LMS- LT TO MED GRY, SLI TO EXTRMLY SHLY, TRS TAN CRYPTO-XLN, GRADING TO CALC SHLS SUB CHLK & R SHALY & PCKSTN, NO FLUOR, NO CUT, NOVIS POR, W/ TRSSH DARK GRAY TO BLK CARB LOOKING & TRS OLIVE GREEN

**MARMATON 4421' - 1516'**

4421- 4445' LMS- ABN WHT TO CRM CHLK & LT TAN TO TAN CRYPTO-V//FN-XLN, V/ TO EXTRMLY OOLITIC & OR V/ TO EXTRMLY OOLICASTIC MATRIX, SUB CHLK, SUB SUCRO & PCKSTN, TRS MED TO COARSE WHT CALCITE XLS & FRGS, DLL YEL FLUOR IP, NO CUT, ABN PR FR GD TO EXCEL OOLICASTIC & MICRO PP POR QUEST PERM IP, W/ TRS CHERT LT GRY OPQUE





**4445-4447' SH- V/DRK GRYBLK SFT CARB**

4447' 4451' LMS- TAN CRYPTO-V/V/FN-XLN EXTRMLY OOLITIC W/ FOSS FRGS, MATRIX SUB CHLK, SUB SUCRO TO SUCRO PCKSTN, DLL YEL TO YEL FLUOR, NO CUT, TRS PR TO FR MICRO PP POR IPS

4451-4459' LMS- SIMILAR TO 4421-4445 W/ TRS SH REDDISH BRN

4459'- 4466' SH- MED TO DARK GRY W/ TRS BLK & TRS SILTST MED GRY EXTRMLY CALC

4466'-4481' LMS TAN, CRYPTO-V/V/FN-XLN, ABN PHNTM OOLITIC TO TRS OOLITIC, MATRIX, SUB CHLK, SUB SUCRO & PCKSTONE, DLL LT TO TRS YEL FLUOR, NO CUT, SLI TRS V/ PR TO PR MICRO PP POR

4481-4491' LMS HVY TRS WHT TO CRM-CHLK & CRM TO TAM, CRYPTO-V/V/FN-XLN, V/ TO EXTRMLY OOLITIC MATRIX, CHLK SUB CHLK SUB SUCRO & PCKST, DLL YEL FLUOR, NO CUT, SLI TR V/PR MICRO PP POR W/ TRS CHERT OFF WHT OPQUE

4491-4512' LMS LT TO MED GRY SLI TO V/ SHLY, CRYPTO-V/V/FN-XLN, SUB SUCRO & PCKSTN, ABN PHNTM OOLITIC TO ABN OOLITIC, V/ DLL YEL FLUOR IP, NO CUT, NO VIS POR

**PAWNEE 4515' -1610'**

4512' 4515' SH - BLACK CARB

4515-4524- SIM TO 4491-4512'

4524' 4529' LMS-CRM TAN W/ SPTTD TO EVEN DRK TAN TO LT BRN OIL STN, FAIR OIL ODOR, CRYPTO-V/V/FN-XLN, PHANTM OOLITIC TO OOLITIC W/ ABN FOSS FRGS MATRIX SUB CHLK SUB SUCRO TO SUCRO & PCKSTN, DLL GLDN TO GLDN YEL FLUOR, FLSH TO GD STRMING CUTS, ABN PR FR TO GD MICRO PP TO TRS PP POR, HVY TRS PR TO FR INTER-XLN POR, W/ TRS CHERT WHT LT GRY OPQUE

4529-4538' SIM TO 4491-4512

**FT.SCOTT 4538' - 1633'**

4544'-4552' LMS- LT GRY TO TAN W/ TANDARK TAN LT BRN OIL STN, FAIR OIL ODOR, SKIMOF OIL IN BUCKET,CRYP TO-V/V/FN-XLN, PHNTM OOLITIC IPS, TRS RE-XLN FOSS, SUB SUCRO TO ABN SUCRO & PCKSTN, DLL GLDN TO GLDN YEL FLUOR, FLUSH TO EXCEL STRMING CUTS, ABN PR FR GD TO EXCEL VUG, PP, MICRO PP & INTER-XLN POR, W/ TRS CHERT LT GRY OPQUE

**CHEROKEE 4558' 1653'**

**4558-4646' INTERBEDDED LMST & SHLS**

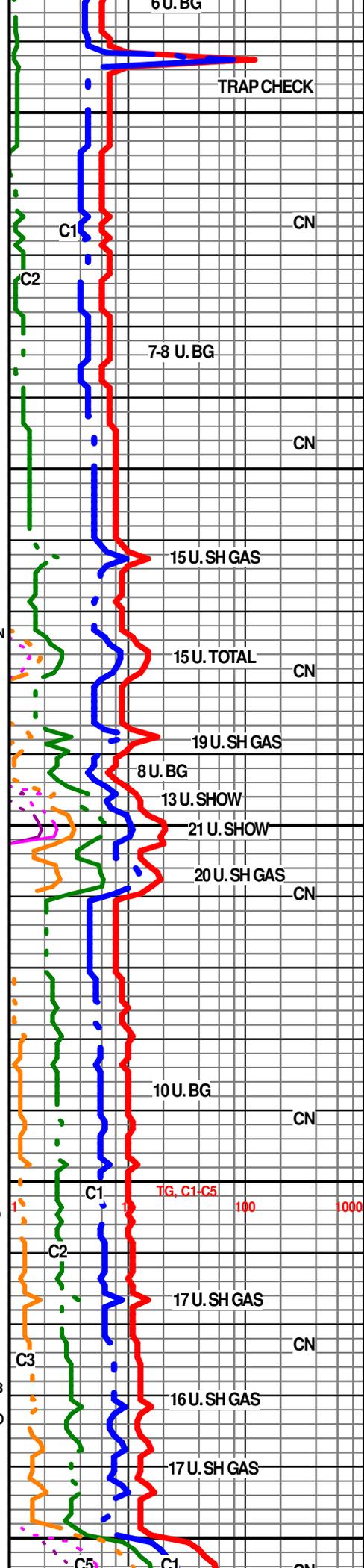
1. LMS- TAN TO LT GRY CRYPTO-V/V/FN-XLN. SUB SUCRO PCKSTN & TRS SUB LITHO, PHNTM OOLITIC TO OOLITIC, TRS FOSS FRGMNTS, DLL YEL FLUOR IPS, NO CUT, NO VIS POR

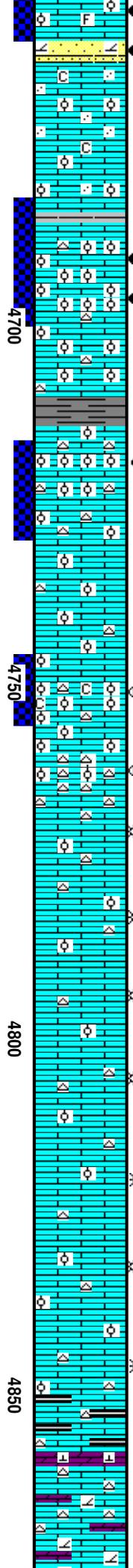
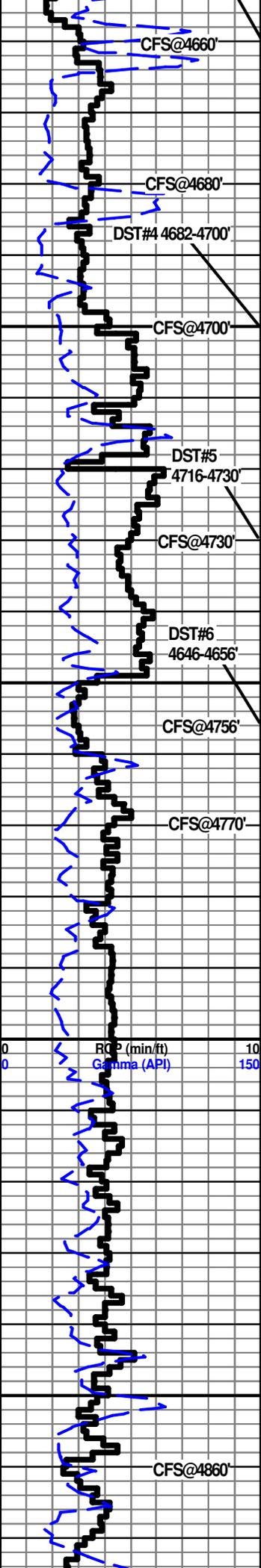
2.LMS- MED TO DRK GRY CRYPTO-XLN, SLI TOEXTRMLY SHLY, SUB CHLKY, OR SHLY, & PCKSTN, TRS OOLITIC, GRAY, NO FLUOR, NO CUT, NO VIS POR

3. SHALES- MED TO DRK GRY, CALC TO V/ DRK GRY TO V/ DRK GRY TO BLACK CARB

4642'-4652' LMS-LT TO MED GRY W/ ABN SPOTTED TO EVEN BRN TO LT BRNOIL STN ON ONE FACES (FRACTURES) CRYPTO TO V/V/FN-XLN, PCKSTN W/ TRS SUB SUCRO TO SUCRO TRS FOSS, GD TO EXCEL OIL ODOR, SKIM OIL IN WATER, TRS PR VUG PP & INTER-XLN POR, DLL GLDN YEL TO GLDN FLUOR W/ FLUSH TO EXCEL STRM CUTS

4652'- 4658' LMS- LT BRN TO BRN FROM OIL STN, V/V/FN-XLN SUB SUCRO TO SUCRO, TRS FOSS, TRS RE-XLN, OOLITIC, EXEL OIL ODOR, SKIM OIL IN WATER, DLL GLDN YEL TO GLDN YEL FLUOR, FLUSH TO EXCEL STRMING CUTS, ABN PR FR TO GOOD VUG, PP MICRO PP & INTERXLN POR





4658'-4663' LMS-W/SHOW SIMILAR TO 4642-4652' DOLO SS, LT GRAY TO SPPTD TO EVEN LT TO DRK TAN FROM OIL STN, V/V/FN-GRN ANG GOOD SORT, GLDN YEL FLUOR, SLO FAIR STRMING CUTS, POSS INTERGRN POR IPS

**ST. GEN 4663' - 1758'**

4663'-4685' LMS- CRM TO V/ LT TAN CRYPTO TO V/V/FN-XLN, EXTRMLY MICRO OOLITIC W/ ABN QUTZ GRNS V/V/FN GRNANG, MATRIX CHLK, SUB CHLK, SUB SUCRO, DLL LT TO LT YEL FLUOR, NO CUT, NO VIS POR

**ST. LOUIS 4686' - 1781'**

4685'-4686' SH- LT GREEN TO OLIVE GREEN

4686-4698' LMS- TAN TO SPPTD TO EVEN DRK TANTO LT BRN OIL STN, GOOD OIL ODOR, SKIM OIL IN WATER, CRYPTO-V/V/FN-XLN, EXTRMLY OOLITIC (SMILL MED TR LRG) MATRIX, SUB SUCRO TO EXTRMLY SUCRO TO NO MATRIX, GLDN YEL FLUOR, FLUSH TO EXCEL STRMING CUTS, ABN FR GD TO EXCEL INTER-XLN INTER-OOLITIC POR ABN FREE OOLITES W/ TRS CHERT CRM LT GRAY TRS REPLACED OOLITES, OPQUE

4698'-4711' LMS- TAN CRYPTO TO V/V/FN-XLN EXTRMLY OOLITIC MTRX, SUB CHLK SUB SUCRO & PCKSTN, DLL YEL FLUOR, NO CUT, NO VIS POR TRS CHERT WHT TAN OPQUE

4711-4714' SH- LT GREEN TO GREEN

4714'-4718' SIM. 4698' 4711 W CHERT TNOPQUE

4718-4720' LMS- TAN W/ ABN DRK TN OIL STN V/V/FN-XLN EXTRMLY OOLITIC MATRIX V/SUCRO TO NO MATRIX, DLL GLDN YEL FLUOR, FLUSH TO EXCEL STRMING CUTS, ABN GOOD TO EXCEL INTER-OOLITIC TO INTER-XLN POR, W/ TRS CHERT TRANS OPQUE

4720-4730' LMS- SIMILAR TO 4698-4711 W/ ABN WHT OPQUE CHERT

4730-4749' LMS W/ CHERT SIMILAR TO 4698'-4711' W/ PROB THIN INTERBED & CAVINGS SIMILAR 4663-4685'

4749' - 4756' LMS ABN TO EXTRMLY ABN WHT TO CRM CHLK, W/ABN CHLKY OOLITES & TAN W/ SLI TRS W/ SLI DRK TAN OIL STN, FAINT OIL ODOR, EXTRMLY OOLITIC MATRIX W/ ABN FREE OOLITES (SMILL MED TRS LRG), SB CHLK SUB SUCRO TRS PCKSTN & TRS NO MTRX, DLL YEL MIN. FLUOR W/ MILK TO FAINT TO FR RING CUTS, HVY TR PR TRS GOOD MICRO PP TO INTER-OOL POR, W/ TRS CHERT WHT TO LT GRAY OPQUE

4760-4766' LMS TRS WHT TO CRM -CHLK W/ CHLKY OOLITES IPS, & TAN, CRYPTO-V/V/FN-XLN, EXTRMLY OOLITIC (SMILL MED LRG) MATRIX, TRS SUB CHLK SUB SUCRO & PCKSTN, NO OOLITES PCKSTN TO SUB LITHO, V/ DLL YEL FLUOR, W/ TRS FAINTING CUTS, OOLITIC RCK ABN PR TRS FR MICRO PP POR, W/ ABN CHERT OFF WHT TO LT GRAY OPQUE TO TRANS

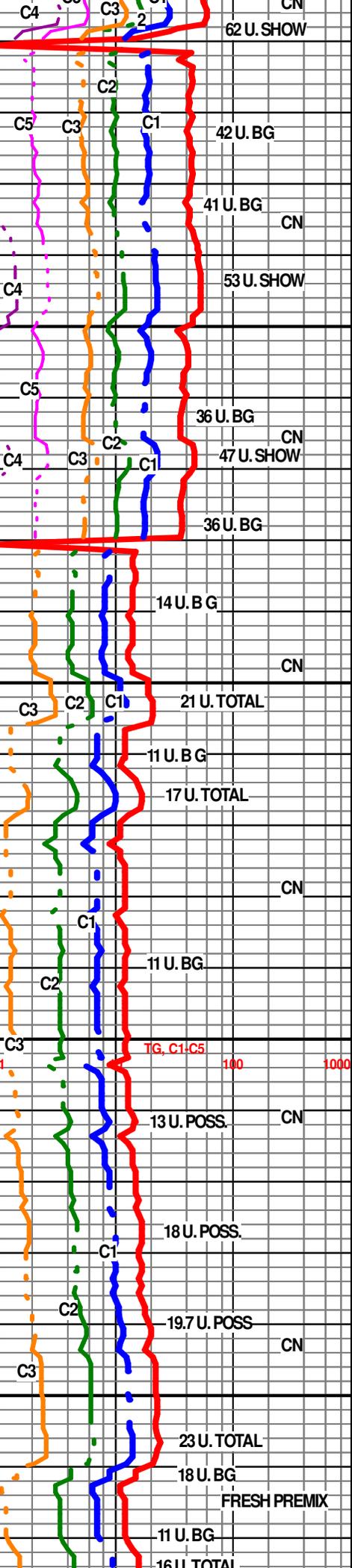
4766- 4810' LMS- SLI TRS WHT TO CRM CHLK W/ TRS CHLK OOLITES & TAN CRYPTO TOTRS V/V/FN-XLN, SUB SUCRO PCKSTN & SUB LITHO, PHANTOM OOLITES IP, TO OOLITIC IP, DUL YEL FLUOR, V/SLI TR DRK BRN TO BLK OIL STN IN FRACTURES & BEDDING PLANES W/ SLOW MILKY TO FAINT RING CUTS, NO VIS POR, PROBABLE FRACTURES, TRS CHERT OFF WHT LT GRAY OPQUE TOTRANS.

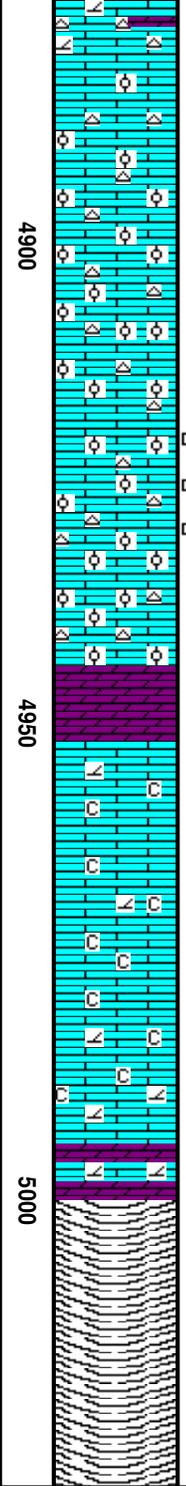
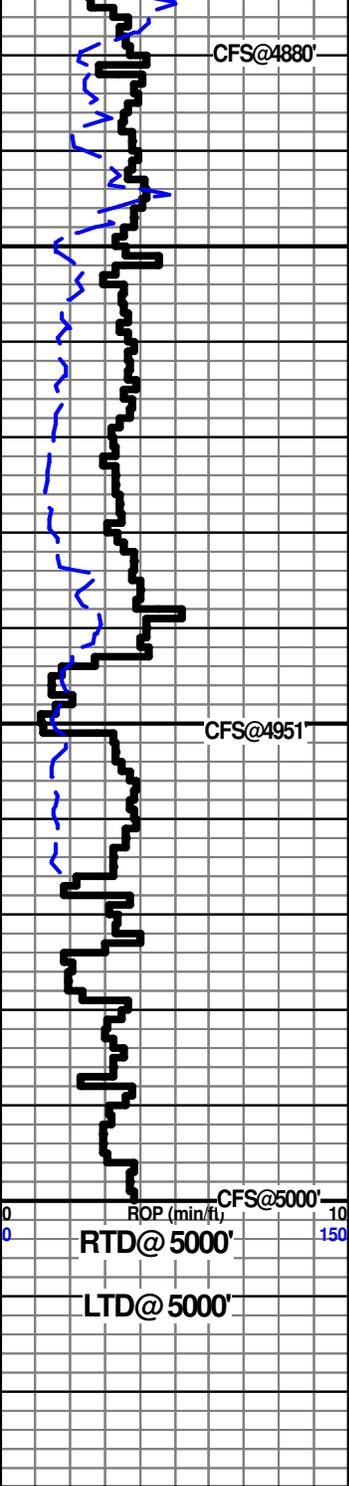
4810' -4850' LMS W/ SHOW SIMILAR TO 4766' TO 4810' W/ PROBABLE MORE FRACTURING & ONLY TRS CHERT

4850'- 4859' BRECCIATED LMS TAN W/ MATRIX BLK CARB SHALE, V/ DLL YEL FLUOR, NO CUT, NO VIS POR

4859'- 4863' DOLO- BRN TO LT GRAY, EXTRMLY FN-XLN, EXTRMLY SUCRO, SLI CALC IPS, V/V/DL YEL FLUOR, NO CUT, NO VIS POR

4863' 4870' LMS- TAN SUB SUCRO TO PCKSTN, OOLITIC IP, TO GRAY PCKSTN TO SUB LITHO, DLL YEL FLUORIP, NO CUT, NO VIS POR, W/ TRS CHERT WHT GRAY OPQUE





4870-4876' DOLOMITIC LMS TO LMY DOLO TO DOLO-TAN V/V/V/ FN-XLN, SUCRO, V/ DLL YEL.FLUOR, NO CUT, NO VIS POR, W/ TRS CHERT WHT TO GRAY OPQUE

4876' - 4901' LMS W/ CHERT SIMILAR TO 4863' TO 4870'

4902' - 4918' LMS-TRS WHT TO CRM -CHLK & TAN, CRYPTO-XLN, EXTRMLY OOLITIC (SMLL TRS MED.) MATRIX, SUB CHLK & PCKSTN, DLL YEL FLUOR, NO CUT, NO VIS POR, W/ TRS CHERT OFF WHT OPQUE TO TRANSLUCENT

4918-4932' LMS W/ CHERT SIMILAR TO 4902-4918' W/ HVY TRS WHT TO CRM CHLK, TRS CHLK OOLITES IP, FAINT OIL ODOR & TRS BLACK DEAD OIL STN, NO FLUOR, W/ V/SLOW MILKY CUTS, NO VIS POR

4932'-4943' LMS-HVY TRS WHT TO CRM CHLK W/ CHLKY OOLITES IP, LT GRY TO TAN, CRYPTO-V/V/FN-XLN, V/TO EXTRMLY OOLITIC (SMLL MED & LRG) MATRIX, SUB CHLK, TRS SUB SUCRO & PCKSTN, V/DLL YEL.FLUOR, NO CUT, NO VIS POR, W/SLI TRS CHERT OFF WHT TO LT GRAY OPQUE

**SPERGEN 4943' - 2038'**

4943' - 4951' DOLO- TAN V/V/FN-XLN, EXTRMLY SUCRO, V/DLL YEL FLUOR, NO CUT, ABN PR FR TO GD & TRS EXCEL PP, MICRO PP & INTER-XLN POR

4951'-4990' LMS- TRS TO V/ABN WHT TO CRM CHLK & TAN, GRYISH TAN, CRYPTO-VV/FN-XLN V/TO EXTRMLY PHANTOM OOLITIC TO OOLITIC, MATRIX CHLK SUB CHLK TO SUB SUCRO & PCKSTN, TRS SLI DOLO, V/DUL YEL FLUOR, NO CUT, NO VIS POR

4990-5000' LMS SIMILAR TO 4951'-4990 BECOMING VERY DOLOMITIC GRADING TO LMY DOLO, LT GRY & TAN, NO CUT, NO VIS POR

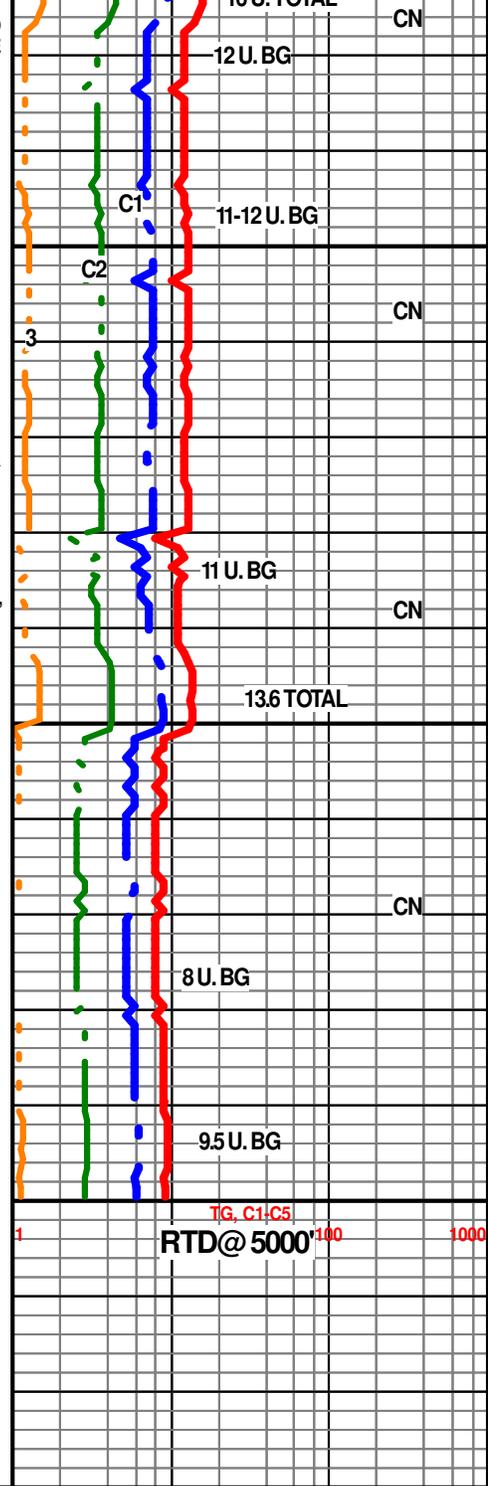
RTD @ 5000' AT 11:45 PM MARCH 1ST 2023

CFS 90 MIN.

SHORT TRIP 15 STANDS

CTCH 2 HOURS/ DROP SURVEY

TRIP OUT F/ LOGS









# QUASAR ENERGY SERVICES, INC.

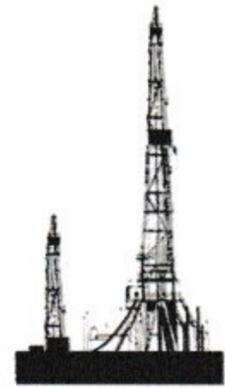


www.quasarenergyservices.com

3288 FM 51  
Gainesville, Texas 76240  
Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

**FRACTURING | ACID | CEMENT | NITROGEN**



<b>BID #:</b> 6881	<b>AFE#/PO#:</b> 0
<b>TYPE / PURPOSE OF JOB:</b> SURFACE	<b>SERVICE POINT:</b> Liberal, KS
<b>CUSTOMER:</b> RAYDON EXPLORATION, INC	<b>WELL NAME:</b> BREYFOGLE #1-10
<b>ADDRESS:</b> PO BOX 1816	<b>LOCATION:</b> GARDEN CITY, KS
<b>CITY:</b> LIBERAL	<b>STATE:</b> KS
<b>ZIP:</b> 67901-1816	<b>COUNTY:</b> FINNEY
<b>STATE:</b> KS	

QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED	UNIT PRICE	AMOUNT
100	1000	L	Mile	Mileage - Pickup - Per Mile	\$5.58	\$ 558.00
200	1010	L	Mile	Mileage - Equipment Mileage - Per Mile	\$8.72	\$ 1,744.00
1	5622	L	Per Well	Pumping Service Charge -1	\$2,315.25	\$ 2,315.25
1	6030	L	Per Well	Plug Container	\$347.29	\$ 347.29
1	4780	L	Each	Guide Shoe 8 5/8"	\$541.77	\$ 541.77
1	4880	L	Each	Insert Float 8 5/8"	\$416.75	\$ 416.75
1	4900	L	Each	Top Rubber Plug 8 5/8"	\$96.47	\$ 96.47
3	4920	L	Each	Centralizers 8 5/8"	\$97.24	\$ 291.72
<b>Subtotal for Pumping &amp; Equipment Charges</b>						<b>\$ 6,311.25</b>

QTY.	CODE	YD	UNIT	MATERIALS	UNIT PRICE	AMOUNT
275	5635	L	Per Sack	Cement - Class A (LB)	\$21.54	\$ 5,923.50
550	5770	L	Per Lb.	Calcium Chloride	\$1.53	\$ 841.50
65	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut	\$2.78	\$ 180.70
282	5840	L	Per Lb.	Gel (Bentinite)	\$0.36	\$ 101.52
250	5850	L	Per Lb.	Gypsum	\$1.05	\$ 262.50
250	5900	L	Per Lb.	Sodium Metasilicate (SMS) C-45	\$2.44	\$ 610.00

<b>MANHOURS:</b> 15	<b># WORKERS:</b> 3	<b>Subtotal for Material Charges</b>	<b>\$ 7,919.72</b>
<b>WORKERS</b>		<b>TOTAL</b>	<b>\$ 14,230.97</b>
KIRBY HARPER		<b>DISCOUNT: 15%</b>	<b>DISCOUNT \$ 2,134.65</b>
CARLOS IBARRA		<b>DISCOUNTED TOTAL</b>	<b>\$ 12,096.32</b>
MIGUEL MERCADO			

<b>STAMPS &amp; NOTES:</b>	As of 9/22/15 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.
	<b>CUSTOMER SIGNATURE &amp; DATE</b>
	Signature: <i>[Signature]</i> Date: 2/17/23
	Print Name: <i>Harvey Ruckley</i>

\*All accounts are past due net 30 days following the date of invoice. A finance charge of 1-1/2% per month or 18% annual percentage rate will be charged on all past due accounts.



RAYDON EXPLORATION, INC  
 BREYFOGLE #1-10  
 8.625" SURFACE  
 02/17/2023

