

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or  
Recompletion Date \_\_\_\_\_ Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	PORSCH UNIT 1-3
Doc ID	1467683

All Electric Logs Run

Micro
Por
Dual Ind
Sonic



JUN 05 2019



V 53501

**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:

DARRAH OIL  
C/O JOHN JAY DARRAH JR  
PO BOX 2786  
WICHITA, KS 67201-2786

Invoice Date: 4/26/2019  
Invoice #: 0341506  
Lease Name: Porsch unit  
Well #: 1-3 (New)  
County: Sheridan  
Job Number: ICT1967

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement pump #231	1.000	637.500	637.50
Heavy Eq Mileage	40.000	3.400	136.00
Light Eq Mileage	40.000	1.700	68.00
Light Eq Mileage	396.000	1.275	504.90
H-325	200.000	17.000	3,400.00

82300 / 800  
CEMENT

**Total** 4,746.40

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63290 **DST#: 1**

Test Start: 2019.04.29 @ 08:52:00

## GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:10:30

Time Test Ended: 15:37:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

**Interval: 3525.00 ft (KB) To 3885.00 ft (KB) (TVD)**

Reference Elevations: 2747.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: 79.71 psig @ 3526.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.29 End Date: 2019.04.29

Last Calib.: 2019.04.29

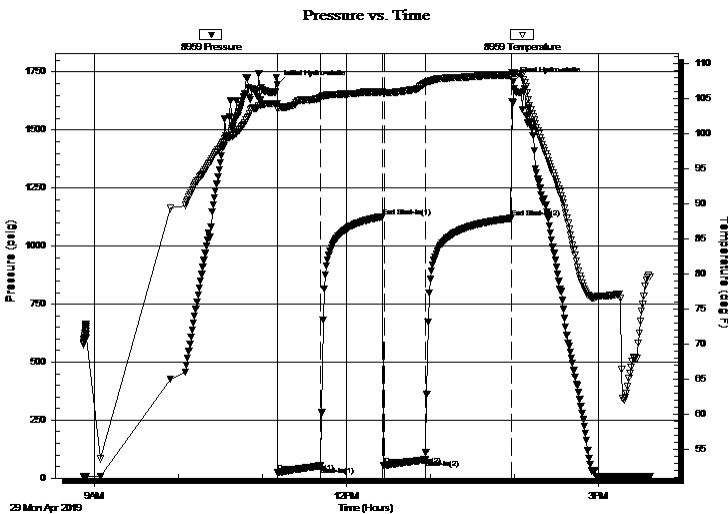
Start Time: 08:52:01 End Time: 15:37:00

Time On Btm: 2019.04.29 @ 11:10:20

Time Off Btm: 2019.04.29 @ 13:59:00

**TEST COMMENT:** 30-IF-S.blow built to 6 1/4"  
45-ISI-No blow back  
30-FF-S.blow built to 4 3/4"  
60-FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.16	104.22	Initial Hydro-static
1	23.18	103.54	Open To Flow (1)
31	53.16	105.09	Shut-In(1)
76	1127.08	105.92	End Shut-In(1)
77	55.05	105.77	Open To Flow (2)
106	79.71	107.13	Shut-In(2)
168	1120.01	108.35	End Shut-In(2)
169	1708.81	108.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	HMCW 39%M, 61%W	1.82
0.00	Oil spots in tool	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63290 **DST#: 1**

Test Start: 2019.04.29 @ 08:52:00

### 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:	28000 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	HMCW 39%M, 61%W	1.824
0.00	Oil spots in tool	0.000

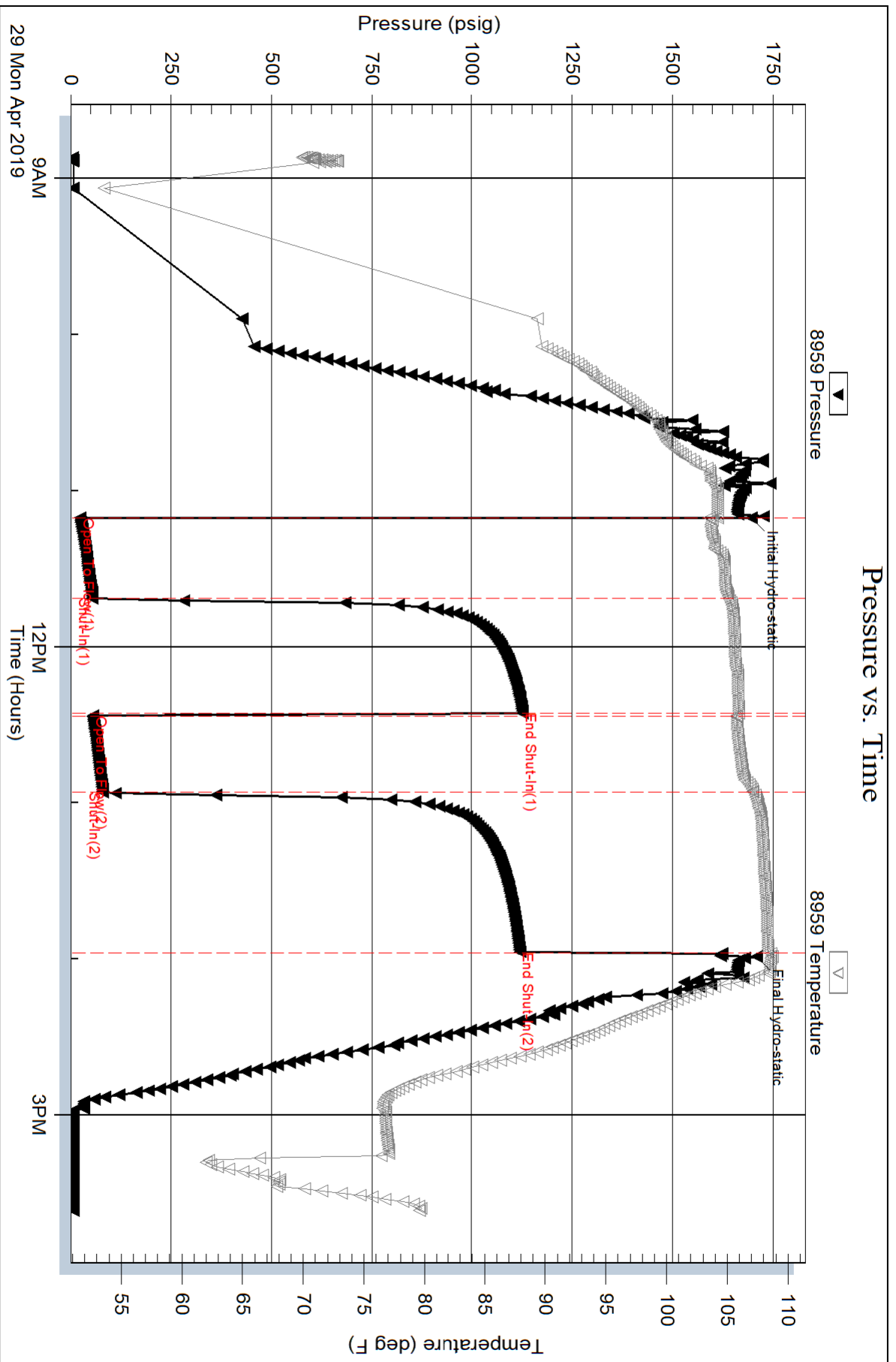
Total Length: 130.00 ft Total Volume: 1.824 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .235 @ 78 degs = 28,0000 PPM

# Pressure vs. Time

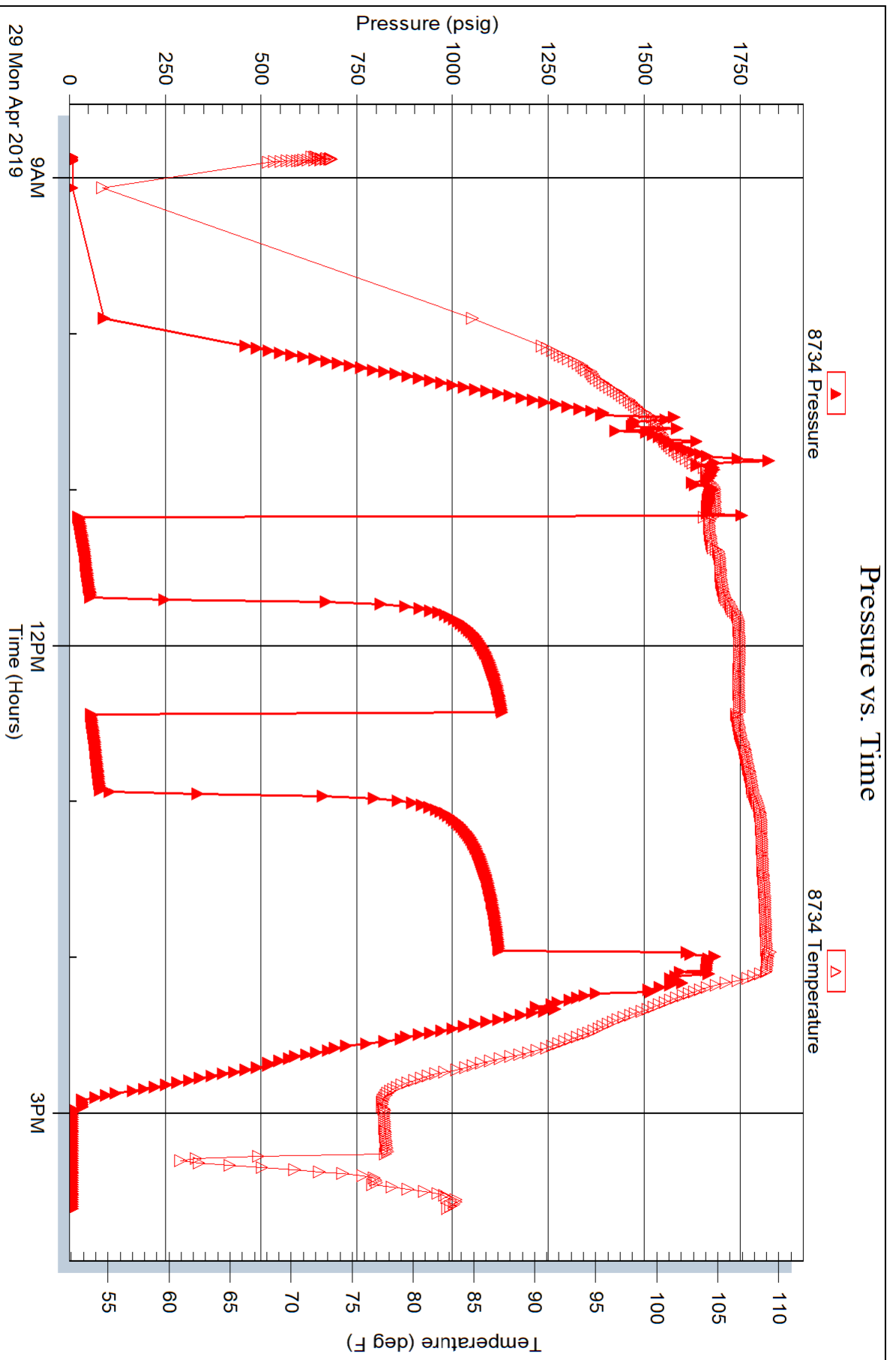


Serial #: 8734

Outside Darrah Oil Company LLC

Porsch Unit #1-3

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63291 **DST#: 2**

Test Start: 2019.04.30 @ 07:10:00

## GENERAL INFORMATION:

Formation: **"Deer Creek"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:53:00

Time Test Ended: 13:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 3668.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Reference Elevations: 2747.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 173.23 psig @ 3669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.30

End Date: 2019.04.30

Last Calib.: 2019.04.30

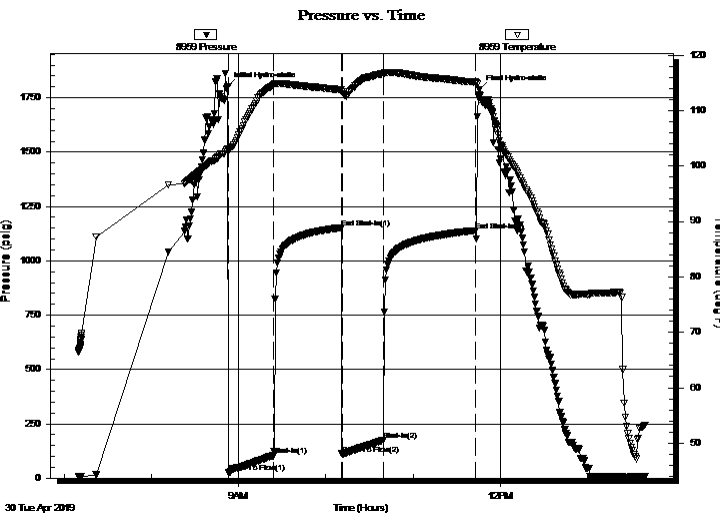
Start Time: 07:10:01

End Time: 13:39:30

Time On Btm: 2019.04.30 @ 08:52:40

Time Off Btm: 2019.04.30 @ 11:45:30

**TEST COMMENT:** 30-IF-S.blow built to B.O.B (11 inches) @ 17 mins (blow increased to 17 3/4")  
45-ISI-Weak surface blow back @ 7 mins dead @ 26 mins  
30-FF-S.blow built to B.O.B (11 inches) @ 23 mins (blow increased to 14 3/4")  
60-FSI-S.blow back @ 26 mins built to 1/4" dead @ 45 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.52	103.16	Initial Hydro-static
1	24.71	102.80	Open To Flow (1)
32	103.35	114.59	Shut-In(1)
78	1152.49	113.74	End Shut-In(1)
79	111.33	113.38	Open To Flow (2)
107	173.23	116.63	Shut-In(2)
171	1137.91	115.14	End Shut-In(2)
173	1787.90	112.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	MSW 4%M, 96%W	2.65
146.00	HMCW 38%M, 62%W	2.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63291 **DST#: 2**

Test Start: 2019.04.30 @ 07:10:00

### 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:	70000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

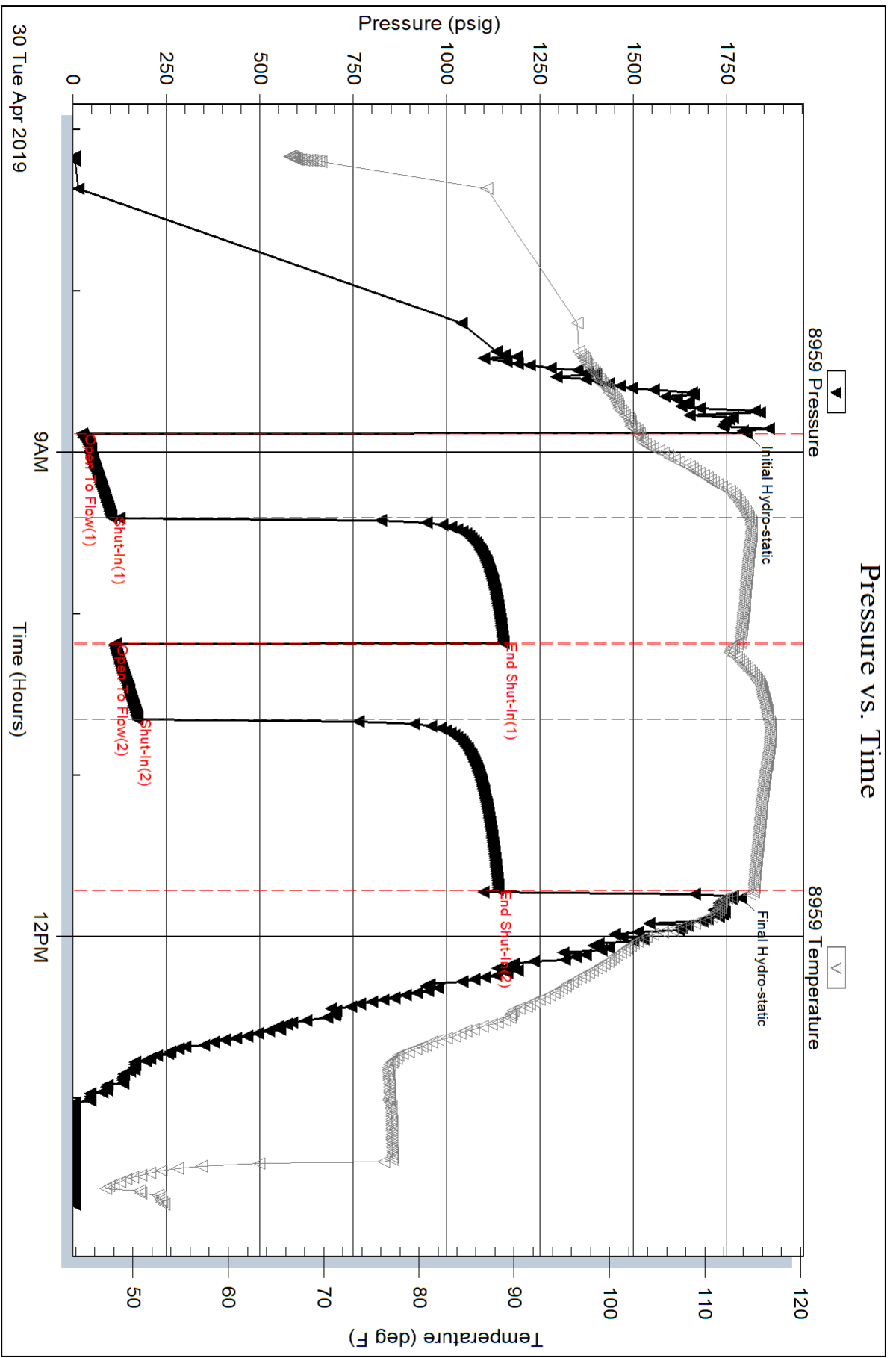
Length ft	Description	Volume bbl
189.00	MSW 4%M, 96%W	2.651
146.00	HMCW 38%M, 62%W	2.048

Total Length: 335.00 ft Total Volume: 4.699 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .174 @ 46.5 degs = 70,000 PPM



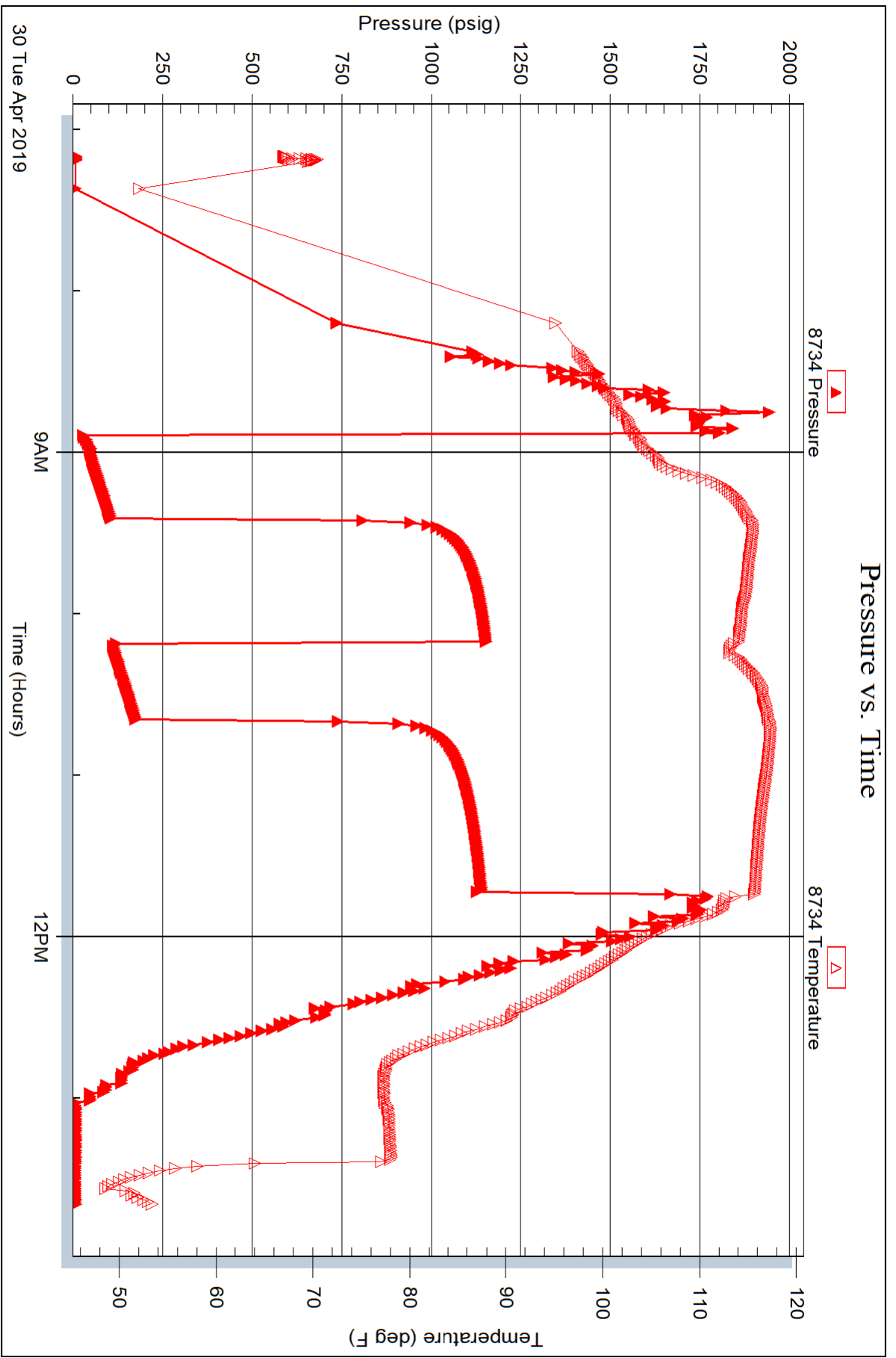


Serial #: 8734

Outside Darrah Oil Company LLC

Porsch Unit #1-3

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63292 **DST#: 3**

Test Start: 2019.05.01 @ 00:30:00

## GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:40

Time Test Ended: 06:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 3764.00 ft (KB) To 3775.00 ft (KB) (TVD)**

Reference Elevations: 2747.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 127.98 psig @ 3765.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.05.01 End Date: 2019.05.01

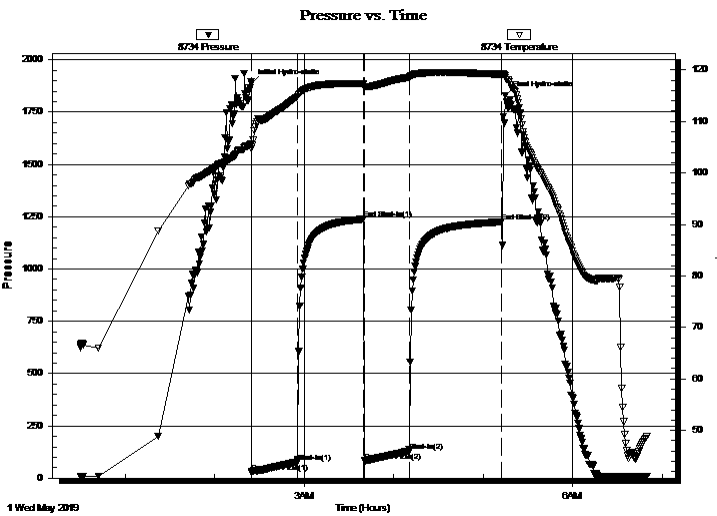
Last Calib.: 2019.05.01

Start Time: 00:30:01 End Time: 06:50:00

Time On Btm: 2019.05.01 @ 02:24:30

Time Off Btm: 2019.05.01 @ 05:14:50

**TEST COMMENT:** 30-IF-S.blow built to B.O.B (11 inches) @ 30 mins  
45-ISI-No blow back  
30-FF-S.blow built to 9 1/4"  
60-FSI-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.89	105.61	Initial Hydro-static
1	28.73	104.67	Open To Flow (1)
31	77.48	114.78	Shut-In(1)
76	1238.85	117.27	End Shut-In(1)
76	82.84	116.61	Open To Flow (2)
106	127.98	118.56	Shut-In(2)
168	1225.11	119.13	End Shut-In(2)
171	1829.70	118.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
225.00	MCW 12%M, 88%W	3.16

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah Oil Company LLC

**3- 7S.- 29W. Sheridan,KS**

125 N. Market  
Suite 1425  
Wichita, KS 67202  
ATTN: Seth Evenson

**Porsch Unit #1-3**

Job Ticket: 63292 **DST#: 3**

Test Start: 2019.05.01 @ 00:30:00

### 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:	58000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
225.00	MCW 12%M, 88%W	3.156

Total Length: 225.00 ft      Total Volume: 3.156 bbl

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

Laboratory Name:      Laboratory Location:

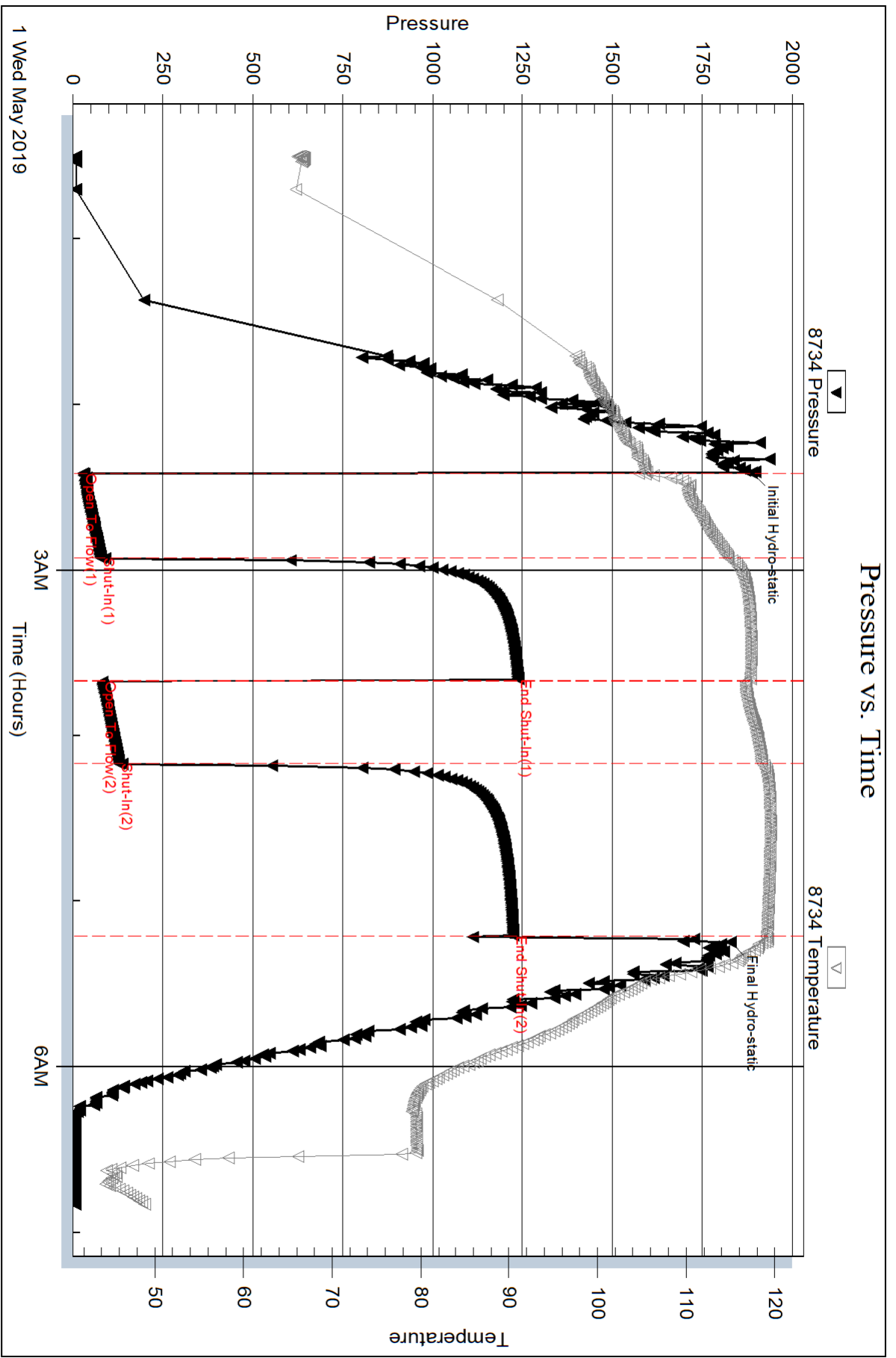
Recovery Comments: RW= .223 @ 43.5 degs = 58,000 PPM

Serial #: 8734

Outside Darrah Oil Company LLC

Porsch Unit #1-3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63292

Printed: 2019.05.01 @ 07:15:01

Serial #: 8959

Inside

Darrah Oil Company LLC

Porsch Unit #1-3

DST Test Number: 3

