

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) (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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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67602

DST#: 1

ATTN: Harlen Clonts

Test Start: 2022.01.13 @ 12:18:23

GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:35:53

Time Test Ended: 23:42:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

Interval: 3270.00 ft (KB) To 3331.00 ft (KB) (TVD)

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3331.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8369

Press@RunDepth: 489.95 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.13

End Date: 2022.01.13

Last Calib.: 1899.12.30

Start Time: 12:18:24

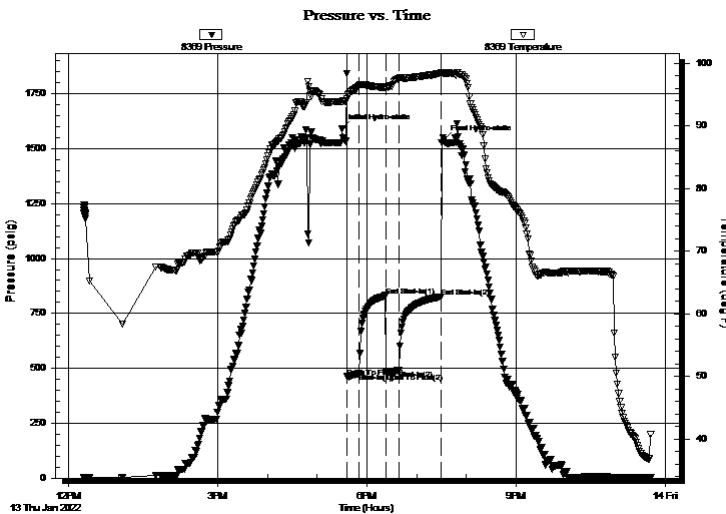
End Time: 23:42:33

Time On Btm: 2022.01.13 @ 17:30:13

Time Off Btm: 2022.01.13 @ 19:32:53

TEST COMMENT: IF: Fair Building blow built to 7.5" in bucket (15)
IS: No Blow Back(30)
FF: Weak Building Blow built to 4.5" in bucket (15)
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.57	93.88	Initial Hydro-static
6	461.58	94.35	Open To Flow (1)
21	477.40	96.36	Shut-In(1)
53	831.04	96.18	End Shut-In(1)
54	479.90	96.07	Open To Flow (2)
69	489.95	97.54	Shut-In(2)
120	826.38	98.36	End Shut-In(2)
123	1542.22	98.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
567.00	M 100%M	6.82
63.00	M 100%M <1%G	0.88
60.00	M 100%M <1%G	0.84
60.00	GSOCM 80%M 10%O 10%G	0.84
60.00	GV SOMCW 40%M 50%W 10%G	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67602

DST#: 1

ATTN: Harlen Clonts

Test Start: 2022.01.13 @ 12:18:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 36.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
567.00	M 100%M	6.819
63.00	M 100%M <1%G	0.884
60.00	M 100%M <1%G	0.842
60.00	GSOCM 80%M 10%O 10%G	0.842
60.00	GV SOMCW 40%M 50%W 10%G	0.842

Total Length: 810.00 ft Total Volume: 10.229 bbl

Num Fluid Samples: 0

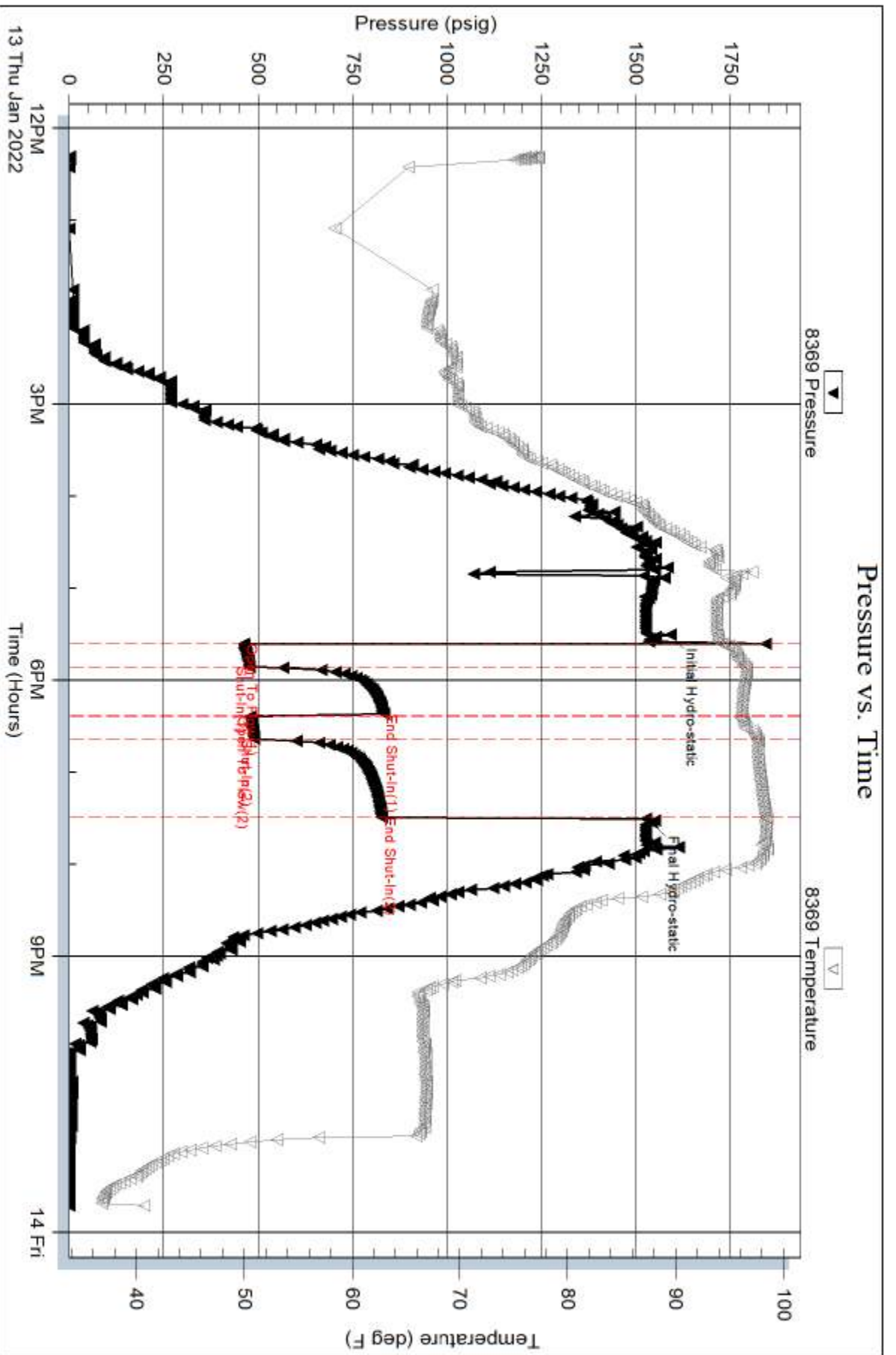
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: set on 15' of fill- tool opened then

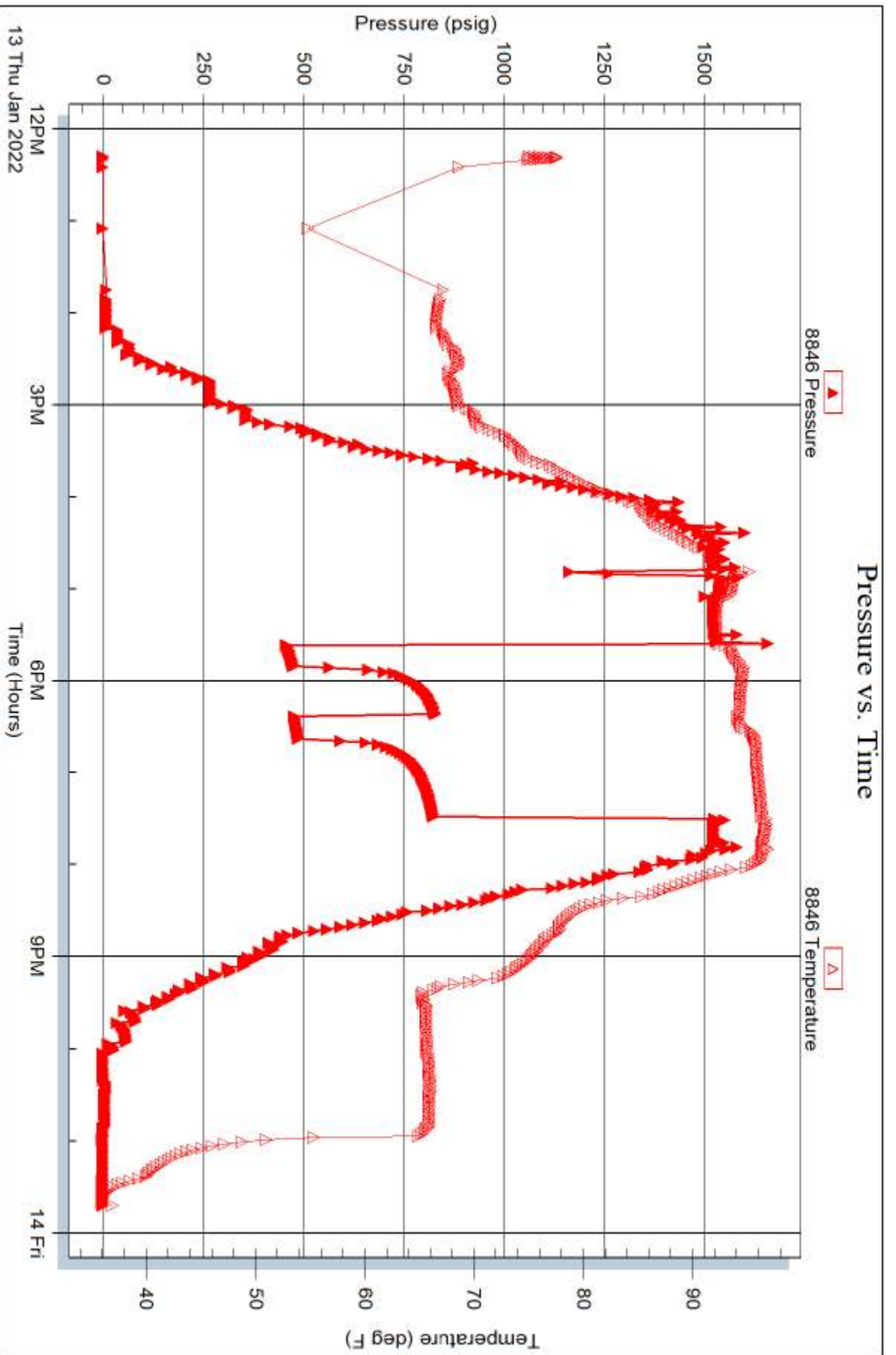


Serial #: 8846

Darrah Oil Company LLC

Keller 25C #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67602

Printed: 2022.01.14 @ 07:25:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67603

DST#: 2

ATTN: Harlen Clonts

Test Start: 2022.01.14 @ 06:14:15

GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:04:25

Time Test Ended: 16:04:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3270.00 ft (KB) To 3331.00 ft (KB) (TVD)

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3331.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8369

Press@RunDepth: 147.77 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.14

End Date: 2022.01.14

Last Calib.: 1899.12.30

Start Time: 06:14:16

End Time: 16:04:25

Time On Btm: 2022.01.14 @ 10:03:15

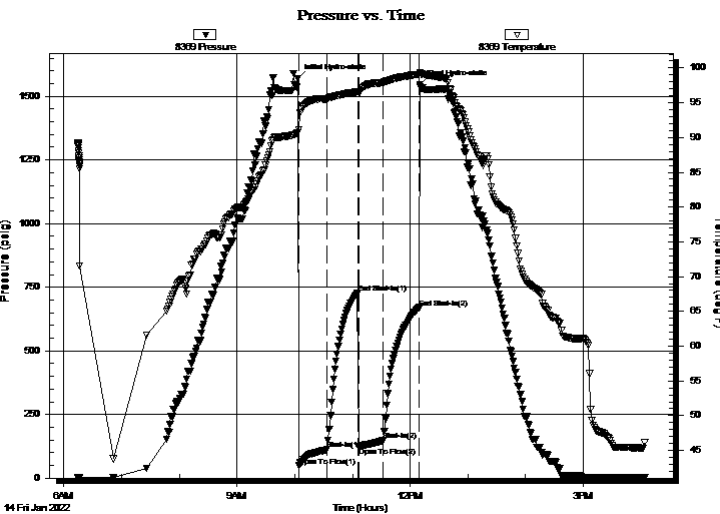
Time Off Btm: 2022.01.14 @ 12:10:05

TEST COMMENT: IF: Strong Building Blow built to bottom of bucket in 8 mins. built to 35" on gauge (30)

IS: 1.5" blow back in bucket (30)

FF: Fair Building blow built to 22.3" on gauge (30)

FS: Weak Building blow built to 4" in bucket (30)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.09	90.75	Initial Hydro-static
2	48.49	91.17	Open To Flow (1)
31	112.19	95.51	Shut-In(1)
62	725.71	96.59	End Shut-In(1)
63	121.26	96.43	Open To Flow (2)
89	147.77	97.92	Shut-In(2)
127	670.35	99.06	End Shut-In(2)
127	1545.49	99.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOMCW 30%M 50%W 5%O 15%G	0.46
60.00	GOMCW 25%M 65%W 5%O 5%G	0.46
60.00	GOMCW 30%M 35%W 10%O 25%G	0.48
63.00	GOWCM 65% M10%W 5%O 20%G	0.88
63.00	GOCM 70%M 15%O 15%G	0.88

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Withcta, KS. 67202

ATTN: Harlen Clonts

25/20S/14W

Keller 25C #1

Job Ticket: 67603

DST#: 2

Test Start: 2022.01.14 @ 06:14:15

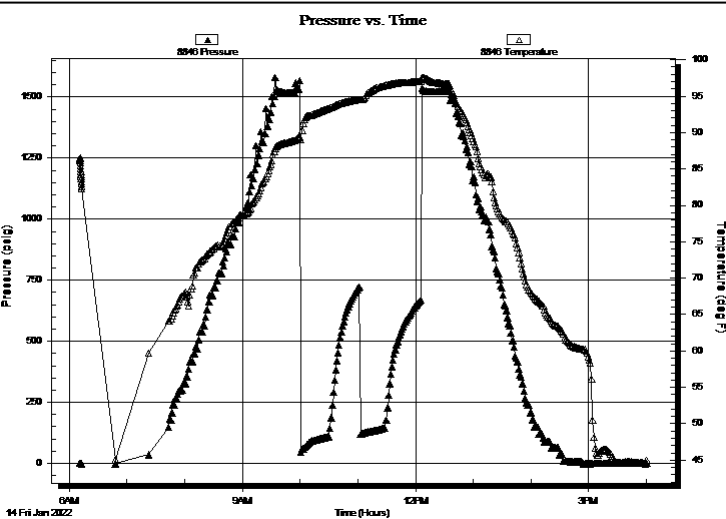
GENERAL INFORMATION:

Formation: **LKC A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:04:25
 Time Test Ended: 16:04:25
Interval: 3270.00 ft (KB) To 3331.00 ft (KB) (TVD)
 Total Depth: 3331.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1906.00 ft (KB)
 1894.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8846

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 1899.12.30
 Start Time: 06:10:49 End Time: 16:00:58 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Building Blow built to bottom of bucket in 8 mins. built to 35" on gauge (30)
 IS: 1.5" blow back in bucket (30)
 FF: Fair Building blow built to 22.3" on gauge (30)
 FS: Weak Building blow built to 4" in bucket (30)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOMCW 30%M 50%W 5%O 15%G	0.46
60.00	GOMCW 25%M 65%W 5%O 5%G	0.46
60.00	GOMCW 30%M 35%W 10%O 25%G	0.48
63.00	GOWCM 65% M10%W 5%O 20%G	0.88
63.00	GOCM 70%M 15%O 15%G	0.88

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

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67603

DST#: 2

ATTN: Harlen Clonts

Test Start: 2022.01.14 @ 06:14:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 36.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOMCW 30%M 50%W 5%O 15%G	0.457
60.00	GOMCW 25%M 65%W 5%O 5%G	0.457
60.00	GOMCW 30%M 35%W 10%O 25%G	0.476
63.00	GOWCM 65% M10%W 5%O 20%G	0.884
63.00	GOCM 70%M 15%O 15%G	0.884

Total Length: 306.00 ft Total Volume: 3.158 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

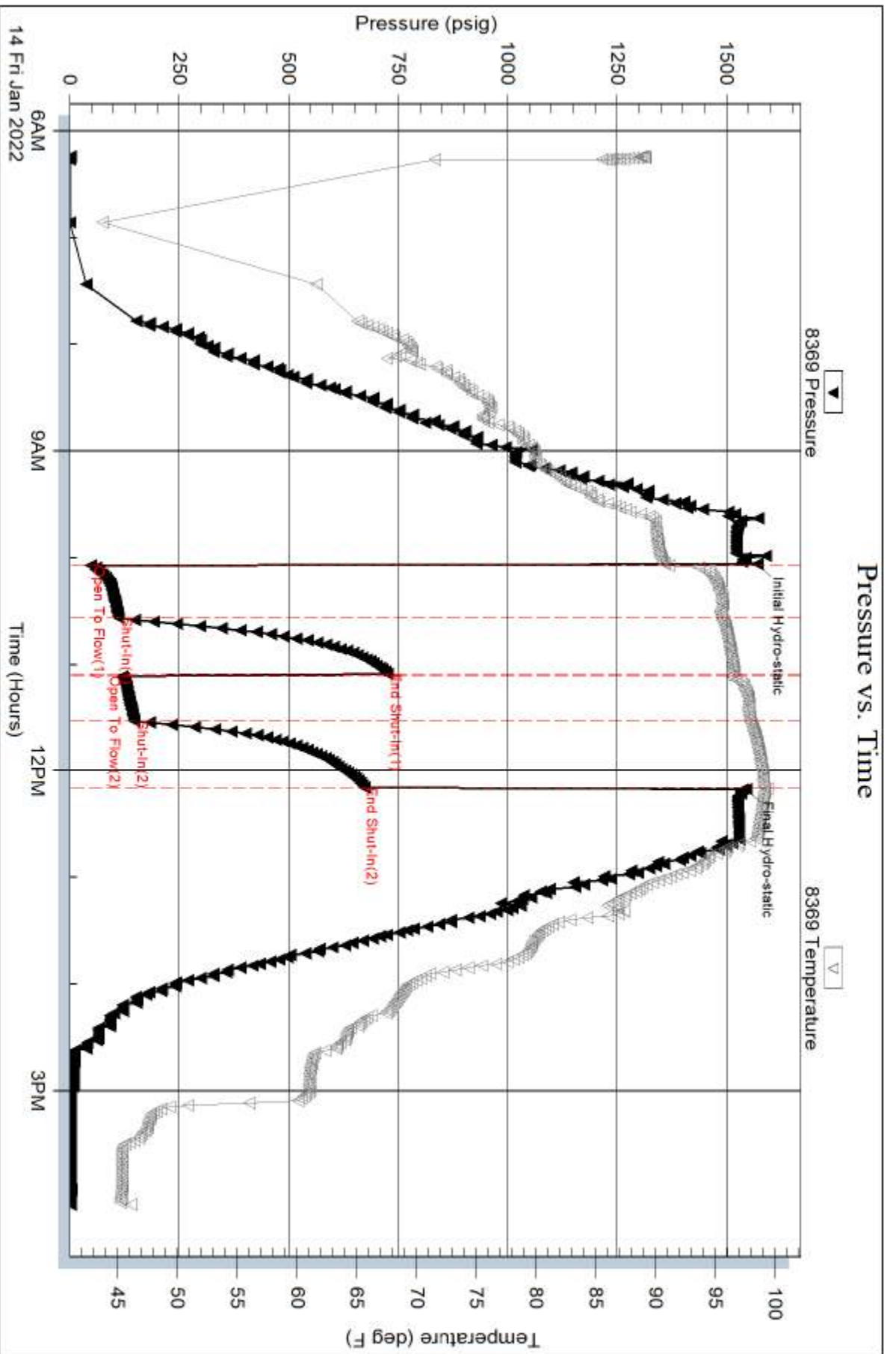
Laboratory Location:

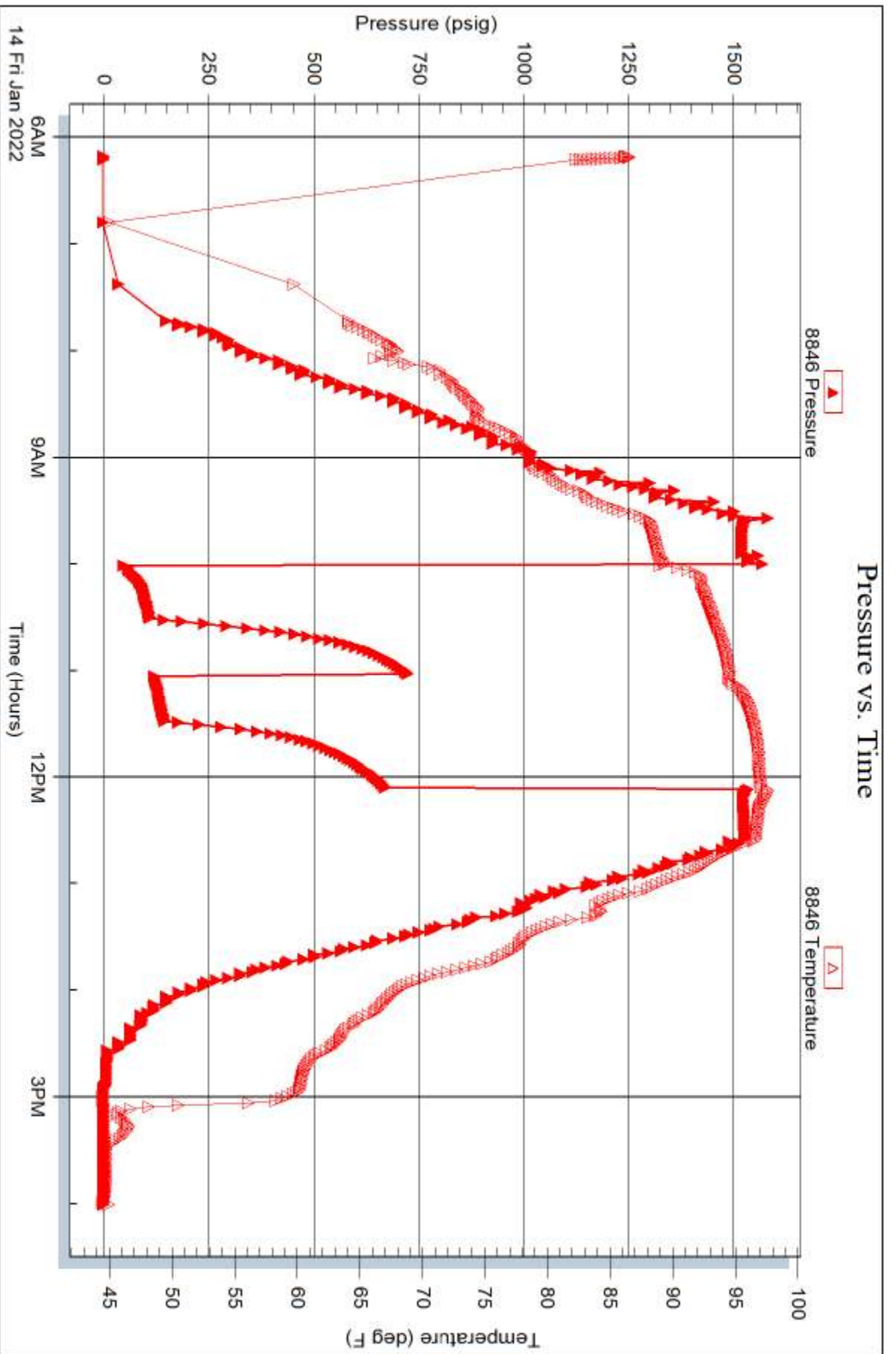
Recovery Comments: 60' GOMCW 30%M 50%W 5%O 15%G

60' GOMCW 25%M 65%W 5%O 5%G

60' GOMCW 30%M 35%W 10%O 25%G

63' GOWCM 65%M 10%W 5%O 20%G







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67604

DST#: 3

ATTN: Harlen Clonts

Test Start: 2022.01.15 @ 11:43:24

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:04:44

Time Test Ended: 05:58:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3390.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3331.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369

Press@RunDepth: 157.39 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.15 End Date: 2022.01.16

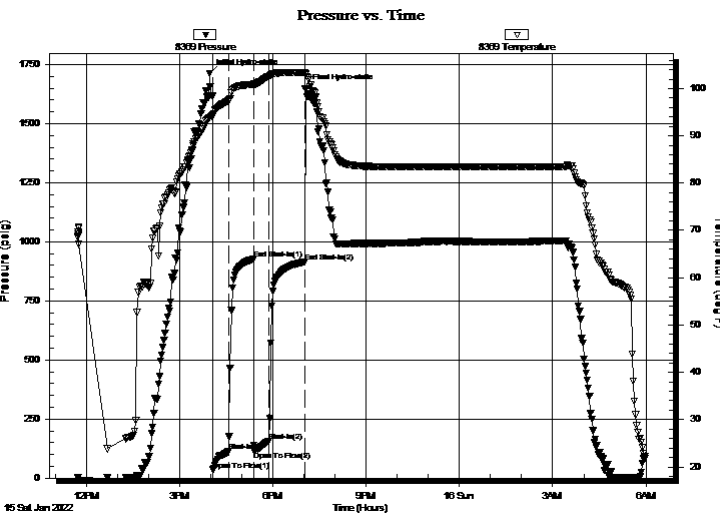
Last Calib.: 1899.12.30

Start Time: 11:43:25 End Time: 05:58:53

Time On Btm: 2022.01.15 @ 15:58:44

Time Off Btm: 2022.01.15 @ 19:02:54

TEST COMMENT: IF: Strong Building Blow built to 36" on gauge (30)
IS: Weak Blow Back built 1" in bucket (45)
FF: Strong Building Blow built 42.3" on gauge (30)
FS: Weak Building Blow Back built to 8" in bucket (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.70	93.89	Initial Hydro-static
7	35.10	94.44	Open To Flow (1)
37	113.06	97.47	Shut-In(1)
85	927.11	100.92	End Shut-In(1)
85	115.10	100.75	Open To Flow (2)
115	157.39	102.60	Shut-In(2)
184	915.05	103.41	End Shut-In(2)
185	1649.23	103.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GV SOWCM 50% M 35% W 10% O 5% G	0.46
60.00	GV SOWCM 45% M 30% W 5% O 20% G	0.46
60.00	GOWCM 45% M 10% W 20% O 25% G	0.48
63.00	GOWCM 45% M 10% W 35% O 10% G	0.88
94.50	GOCM 65% M 25% O 10% G	1.33

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67604

DST#: 3

ATTN: Harlen Clonts

Test Start: 2022.01.15 @ 11:43:24

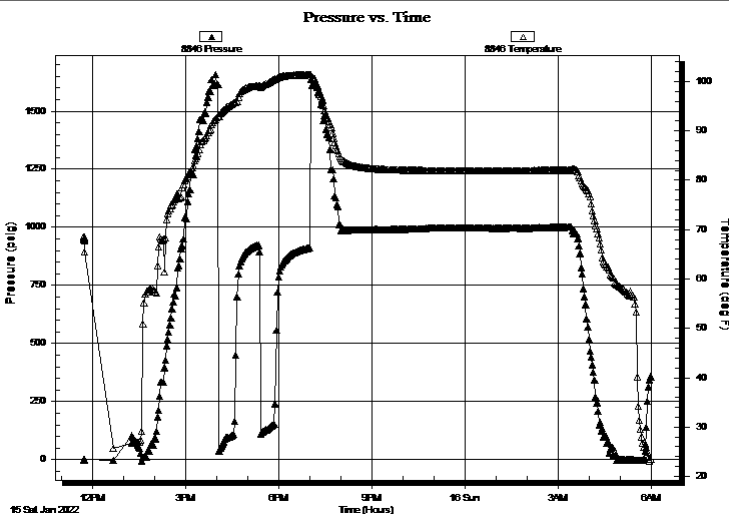
GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:04:44
 Time Test Ended: 05:58:54
 Interval: **3390.00 ft (KB) To 3480.00 ft (KB) (TVD)**
 Total Depth: 3331.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1906.00 ft (KB)
 1894.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8846

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.01.15 End Date: 2022.01.16 Last Calib.: 1899.12.30
 Start Time: 11:43:10 End Time: 05:59:18 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Building Blow built to 36" on gauge (30)
 IS: Weak Blow Back built 1" in bucket (45)
 FF: Strong Building Blow built 42.3" on gauge (30)
 FS: Weak Building Blow Back built to 8" in bucket (60)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GV SOWCM 50% M 35% W 10% O 5% G	0.46
60.00	GV SOWCM 45% M 30% W 5% O 20% G	0.46
60.00	GOWCM 45% M 10% W 20% O 25% G	0.48
63.00	GOWCM 45% M 10% W 35% O 10% G	0.88
94.50	GOCM 65% M 25% O 10% G	1.33

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

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67604

DST#: 3

ATTN: Harlen Clonts

Test Start: 2022.01.15 @ 11:43:24

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:

38000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	GVSOWCM 50%M 35%W 10%O 5%G	0.457
60.00	GVSOWCM 45%M 30%W 5%O 20%G	0.457
60.00	GOWCM 45%M 10%W 20%O 25%G	0.476
63.00	GOWCM 45%M 10%W 35%O 10%G	0.884
94.50	GOCM 65%M 25%O 10%G	1.326

Total Length: 337.50 ft

Total Volume: 3.600 bbf

Num Fluid Samples: 0

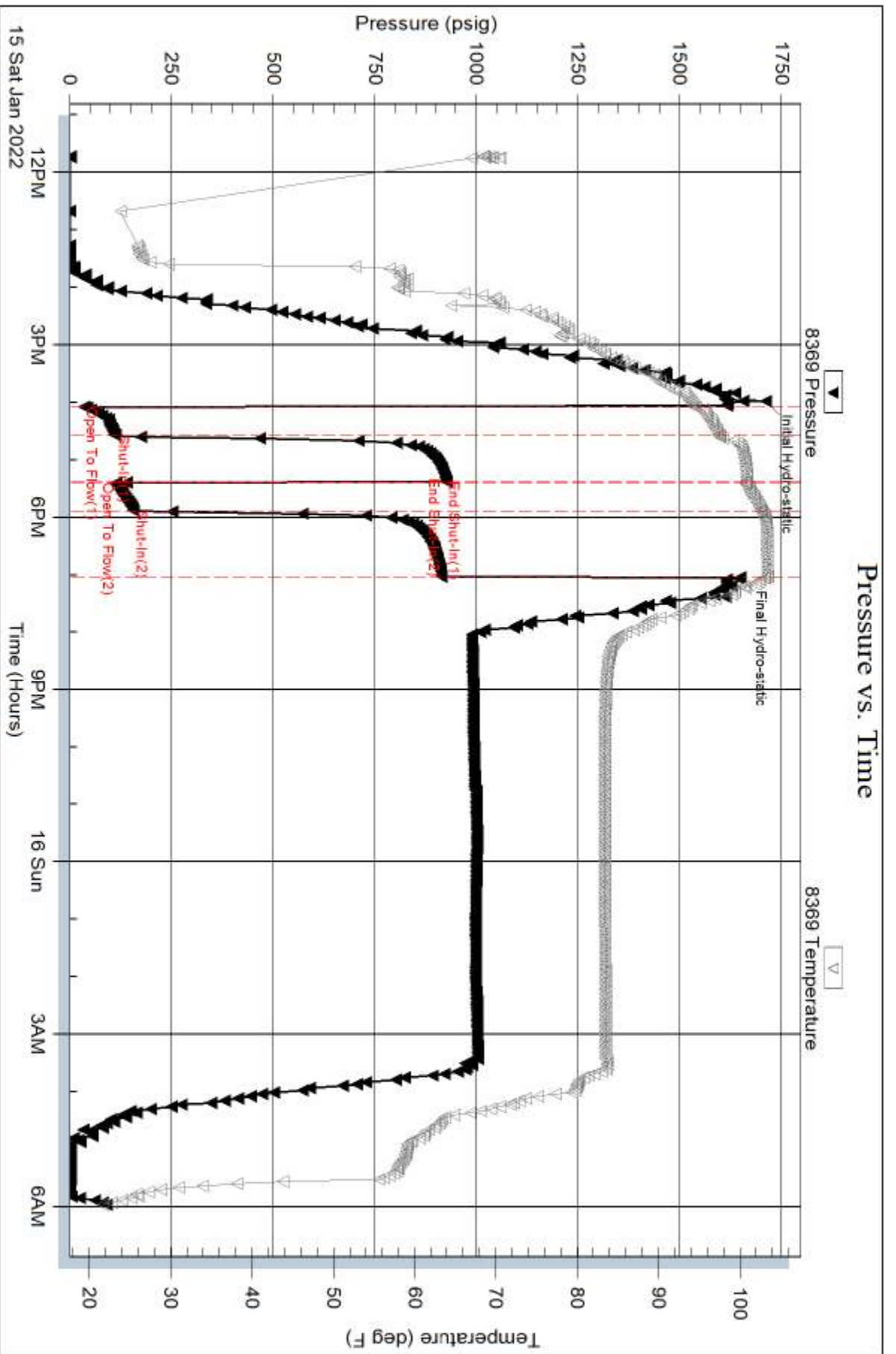
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

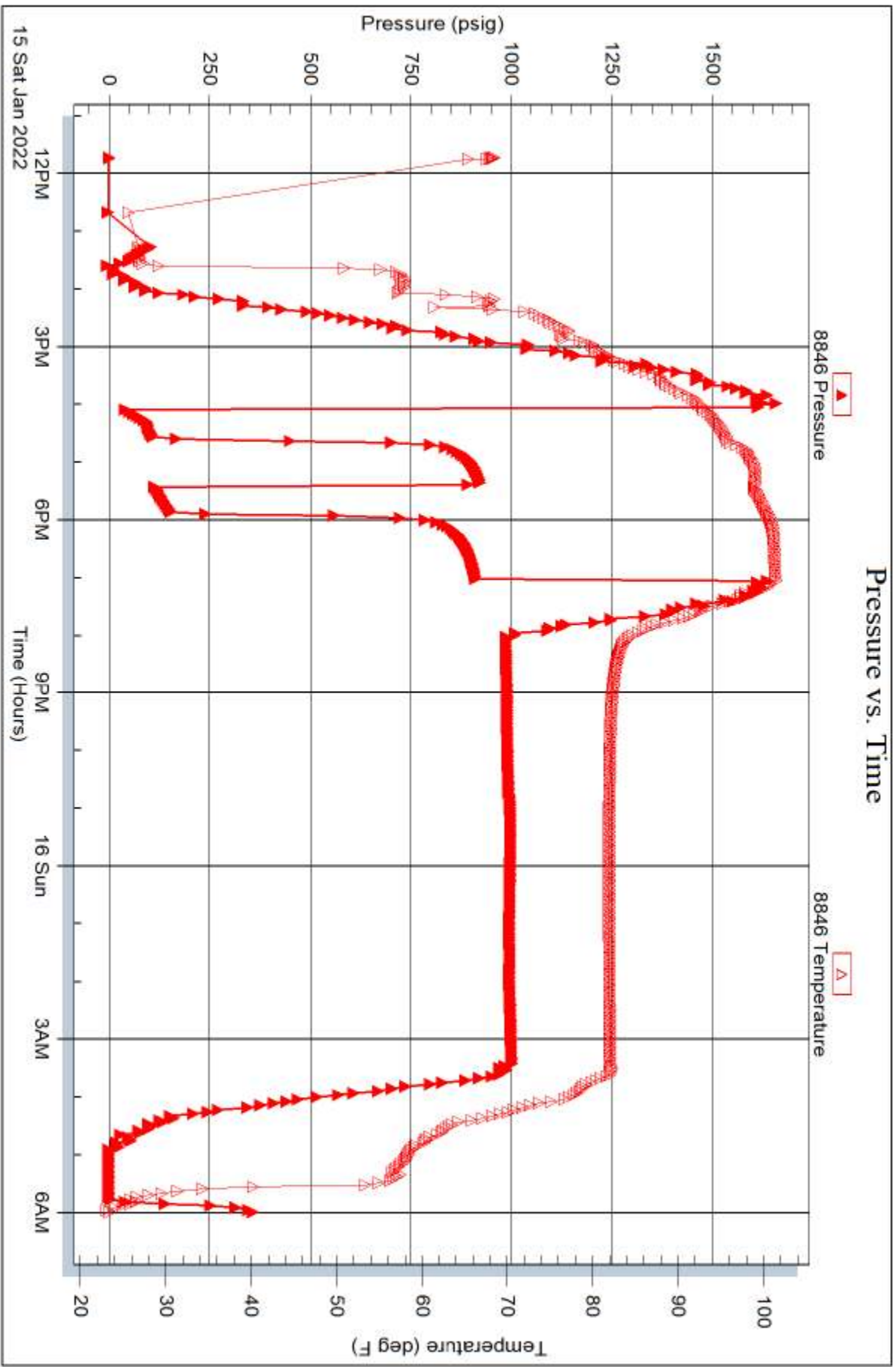


Serial #: 8846

Darrah Oil Company LLC

Keller 25C #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67604

Printed: 2022.01.16 @ 08:04:50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67605

DST#: 4

ATTN: Harlen Clonts

Test Start: 2022.01.16 @ 21:39:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:54:32

Time Test Ended: 08:07:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3490.00 ft (KB) To 3556.00 ft (KB) (TVD)

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3556.00 ft (KB) (TVD)

1894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8369

Inside

Press@RunDepth: 210.28 psig @ 3491.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.16

End Date:

2022.01.17

Last Calib.:

1899.12.30

Start Time: 21:39:23

End Time:

08:07:02

Time On Btm:

2022.01.17 @ 00:53:22

Time Off Btm:

2022.01.17 @ 03:49:31

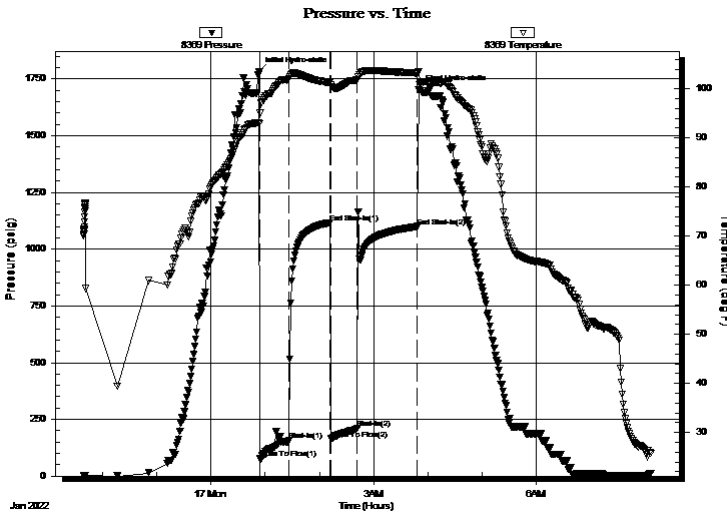
TEST COMMENT: IF: Strong Building Blow B.O.B in 10 mins. built to 23" on gauge (30)

IS: No Blow Back

FF: Fair Building Blow Built to 20" on gauge (30)

FS: No Blow Back (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.79	92.96	Initial Hydro-static
2	78.75	95.04	Open To Flow (1)
33	156.62	102.05	Shut-In(1)
79	1117.65	101.24	End Shut-In(1)
80	164.43	100.78	Open To Flow (2)
109	210.28	101.87	Shut-In(2)
175	1100.20	103.23	End Shut-In(2)
177	1701.09	103.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.50	OWCM 30%M 20%W 50%O	0.24
63.00	OWCM 40%M 10%W 50%O	0.48
63.00	GOWCM 45%M 5%W 40%O 10%G	0.48
63.00	GOCM 15%M 50%O 35%G	0.76
120.00	O 100%O	1.68
60.00	GOWCM 5%M 5%W 65%O 25%G	0.84

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC
125 N Market Suite 1425
Withcta, KS. 67202
ATTN: Harlen Clonts

25/20S/14W

Keller 25C #1

Job Ticket: 67605

DST#: 4

Test Start: 2022.01.16 @ 21:39:22

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:54:32
Time Test Ended: 08:07:02
Interval: **3490.00 ft (KB) To 3556.00 ft (KB) (TVD)**
Total Depth: 3556.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80
Reference Elevations: 1906.00 ft (KB)
1894.00 ft (CF)
KB to GR/CF: 12.00 ft

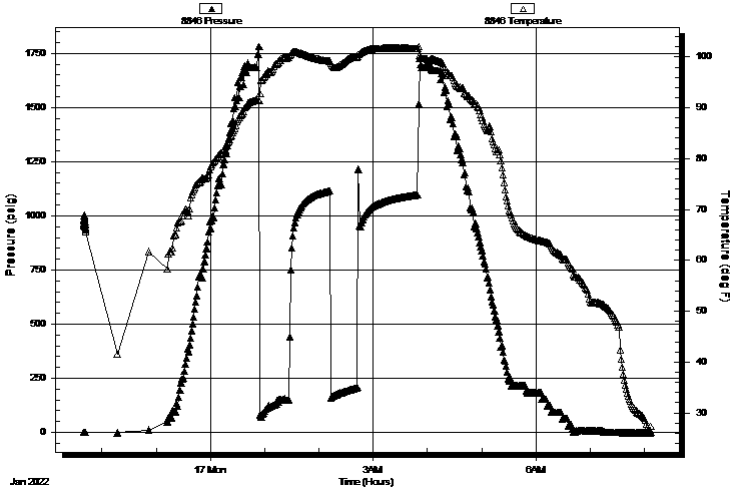
Serial #: 8846

Inside

Press@RunDepth: psig @ 3491.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.01.16 End Date: 2022.01.17 Last Calib.: 1899.12.30
Start Time: 21:39:50 End Time: 08:07:38 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Building Blow B.O.B in 10 mins. built to 23" on gauge (30)
IS: No Blow Back
FF: Fair Building Blow Built to 20" on gauge (30)
FS: No Blow Back (60)

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
31.50	OWCM 30%M 20%W 50%O	0.24
63.00	OWCM 40%M 10%W 50%O	0.48
63.00	GOWCM 45%M 5%W 40%O 10%G	0.48
63.00	GOCM 15%M 50%O 35%G	0.76
120.00	O 100%O	1.68
60.00	GOWCM 5%M 5%W 65%O 25%G	0.84

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

25/20S/14W

125 N Market Suite 1425
Withcta, KS. 67202

Keller 25C #1

Job Ticket: 67605

DST#: 4

ATTN: Harlen Clonts

Test Start: 2022.01.16 @ 21:39:22

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
31.50	OWCM 30%M 20%W 50%O	0.240
63.00	OWCM 40%M 10%W 50%O	0.480
63.00	GOWCM 45%M 5%W 40%O 10%G	0.480
63.00	GOCM 15%M 50%O 35%G	0.759
120.00	O 100%O	1.683
60.00	GOWCM 5%M 5%W 65%O 25%G	0.842

Total Length: 400.50 ft

Total Volume: 4.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

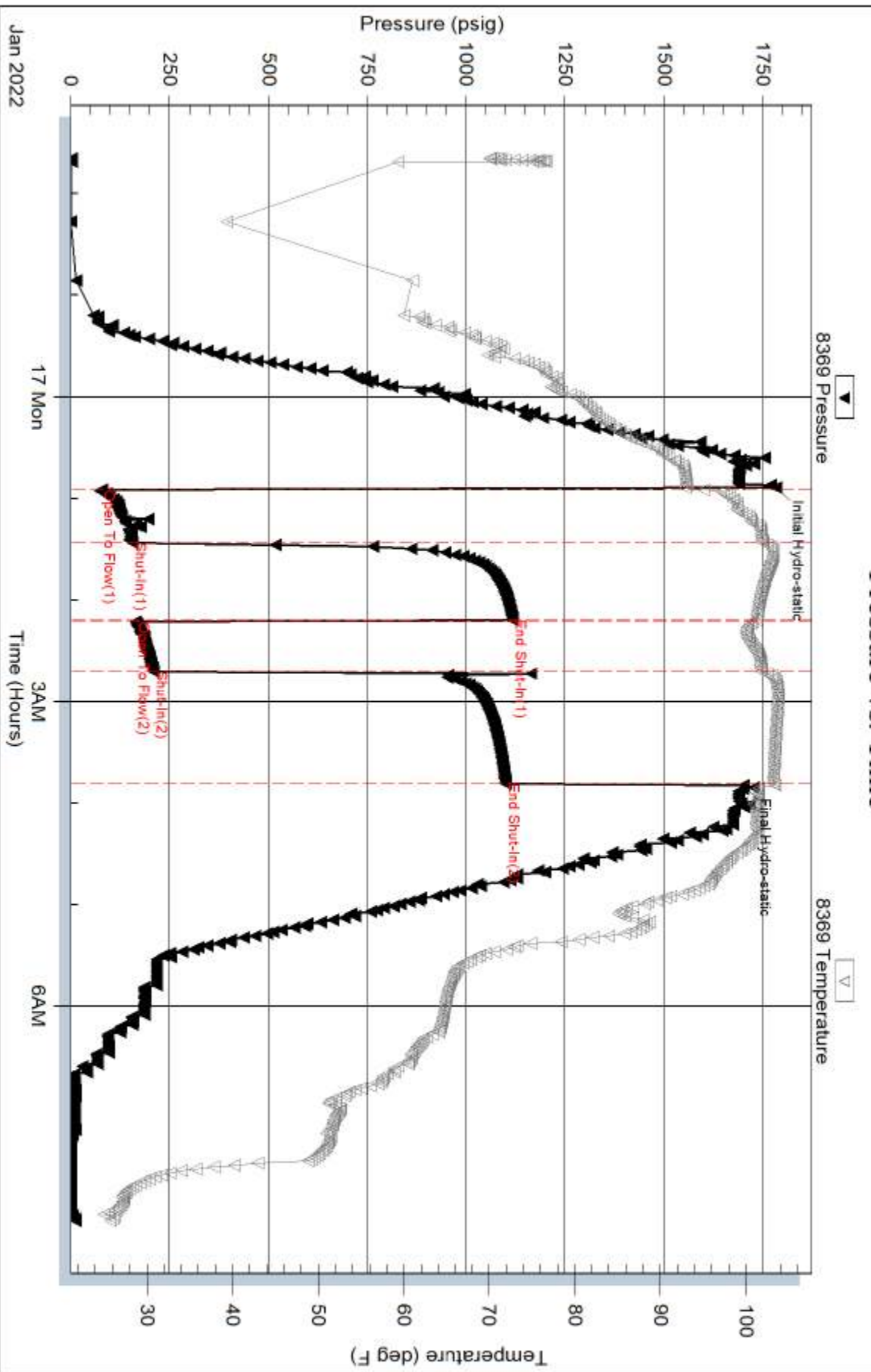
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



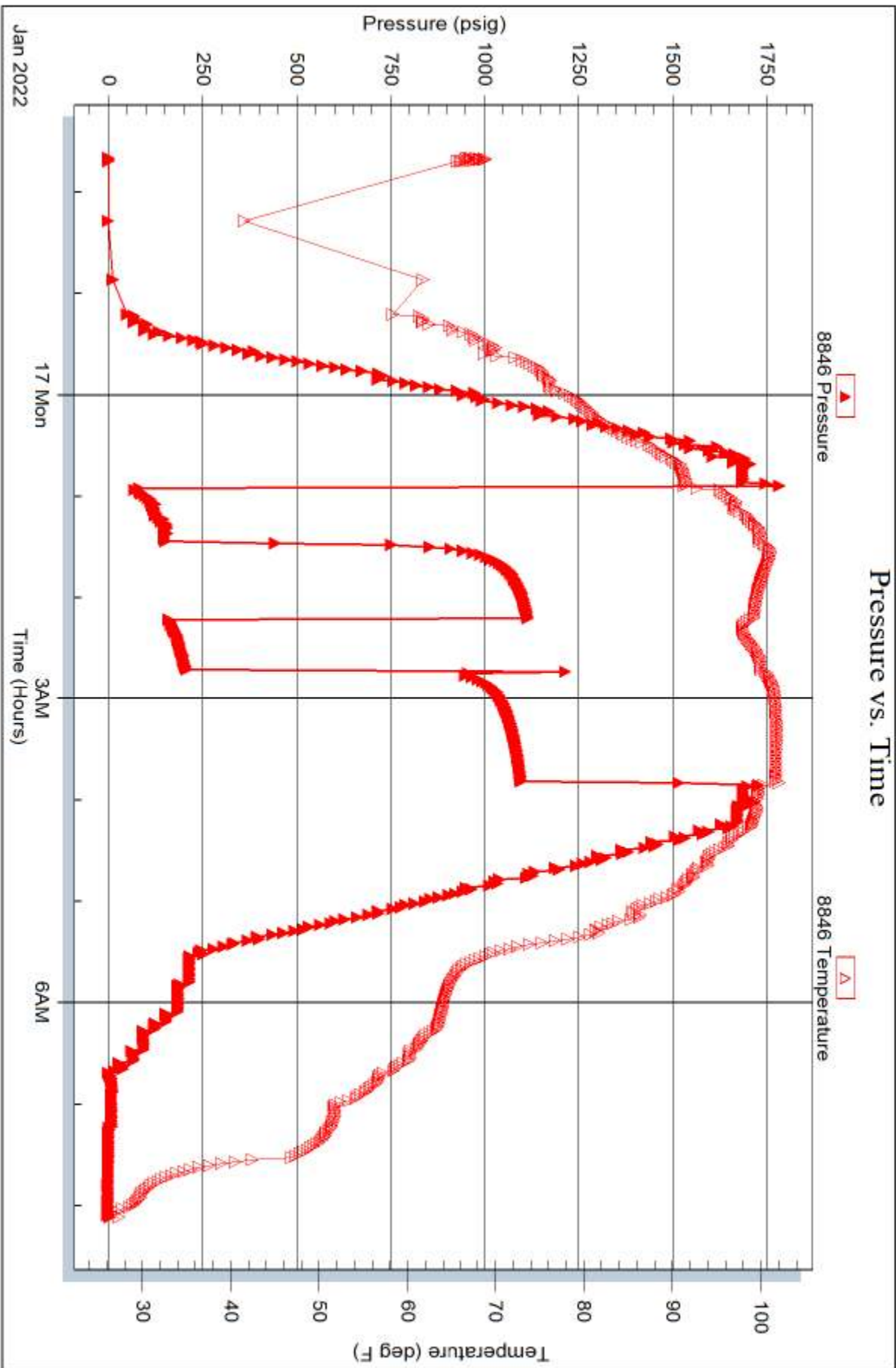
Serial #: 8846

Inside

Darrah Oil Company LLC

Keller 25C #1

DST Test Number: 4



Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Darrath Oil Company, LLC**
LEASE: **Keller 25 C #1**

FIELD: **Pritchard**
LOCATION: **1646 FSI & 925 FWR**
SEC: **25 TWPSP 20S RESE 14W**
COUNTY: **Barton STATE Kansas**
CONTRACTOR: **Murfin Drilling #20**

SPUD: **01/04/22 COMP 01/18/22**
RTD: **3556' TYPE MUD 3550'**
MUD UP: **3200'**

SAMPLES SAVED FROM: **2800'** TO RTD
DRILLING TIME KEPT FROM: **2800'** TO RTD
SAMPLES EXAMINED FROM: **2800'** TO RTD

GEOLOGICAL SUPERVISION FROM: **2600'**
GEOLOGICAL SUPERVISION WELL: **Darrath Oil - Wily A #2**

FORMATION: **Sample Tops**

Formation	Sample Tops	E-log Tops	Strat
Atchafalaya	800 (+106)	799 (+107)	Flint
Topeka	2804 (-498)	2806 (-490)	Flint
Oread	3055 (-1152)	3057 (-1151)	Flint
Hebner	3175 (-1246)	3176 (-1246)	Flint
Topeka	3175 (-1246)	3176 (-1246)	Flint
Donnell's Sh	3187 (-1281)	3187 (-1281)	+3
Brown Lim	3204 (-1358)	3204 (-1358)	+4
Lansing	3276 (-1369)	3275 (-1369)	+3
Arbuckle	3542 (-1656)	3542 (-1656)	-16

ELEVATIONS
KB 1906'

CONDUCTOR SURFACE: **8-5/8" at 2822'**
PRODUCTION: **5-1/2" at 3533'**

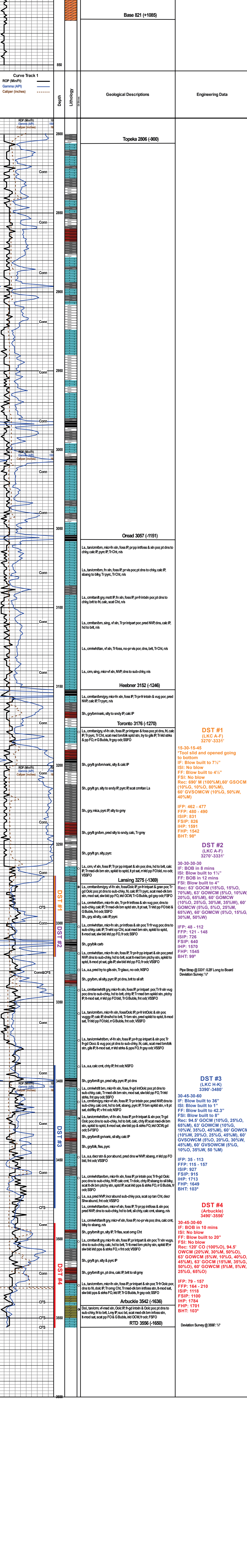
CASING
MEASUREMENTS ARE ALL FROM KELLY BUSHING

ELECTRICAL SURVEYS
CND, DJL, MEL, Samir
Middexy, Hartzline

REMARKS: Due to fair to good shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,
Saman Sharifaie
Petroleum Geologist

API #15-009-26324
*Tops have been adjusted to electric logs



Deviation Survey @ 3556: 1/2"



CEMENT TREATMENT REPORT

Customer:	DARRAH OIL COMPANY	Well:	KELLER 25 C_1	Ticket:	WP2319
City, State:	GREAT BEND KS	County:	BARTON KS	Date:	1/18/2022
Field Rep:	COOPER SEELY	S-T-R:	25-20-14W	Service:	LONGSTRING

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	ft
Casing Size:	5 1/2 in
Casing Depth:	3535 ft
Tubing / Liner:	in
Depth:	3492 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	81.0 bbls

Calculated Slurry - Lead	
Blend:	H-LONG
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	38.0 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	H-PLUG
Weight:	13.78 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.43 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.0 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
10:20 AM			-	-	ON LOCATION
2:00 PM				-	RUN 17# 5 1/2' CASING, 43' SHOE JOINT, TURBOLIZERS ON 1,3,5,7,9
3:55 PM				-	CASING ON BOTTOM
4:11 PM				-	HOOK TO CASING, BREAK CIRCULATION WITH RIG
5:07 PM	5.0	200.0	12.0	12.0	PUMP 12 BBL MUD FLUSH
5:10 PM	5.0	200.0	20.0	32.0	PUMP 20 BBL KCL WATER
5:14 PM	4.0	200.0	38.0	70.0	MIX 150 SKS H-LONG
5:27 PM	3.0	25.0	4.0	74.0	WASH PUMP AND LINE, DROP PLUG
5:32 PM	6.9	210.0		74.0	START DISPLACEMENT
5:41 PM	6.9	710.0	60.0	134.0	LIFT PRESSURE, STOP ROTATING
5:45 PM	1.0	900.0	65.0	199.0	PRESSURES VARY BETWEEN 700 AND 1500 PSI, SLOW RATE
5:53 PM		1,650.0	81.0	280.0	PLUG DOWN, RELEASED AND HELD
5:58 PM	1.0	25.0	7.0	287.0	MIX 30 SKS H-PLUG FOR RAT HOLE
6:05 PM	1.0	25.0	5.0	292.0	MIX 20 SKS H-PLUG FOR MOUSE HOLE
					CIRCULATION THROUGH JOB
					JOB COMPLETE, THANK YOU!
					MIKE MATTAL
					RILEY & BRIAN

CREW		UNIT	SUMMARY		
Cementor:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	179/522	3.8 bpm	415 psi	292 bbls
Bulk #1:	WHITFIELD	181/533			
Bulk #2:					



Customer	DARRAH OIL COMPANY		Lease & Well #	KELLER 25 C_1		Date	1/18/2022
Service District	PRATT		County & State	BARTON KS	Legals S/T/R	25-20-14W	Job #
Job Type	LONGSTRING	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
912	MATTAL	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
179/522	OSBORN	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
181/533	WHITFIELD	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	150.00	\$3,864.00
CP055	H-Plug	sack	50.00	\$598.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$345.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$322.00
FE135	5 1/2 Turbolizer	ea	5.00	\$575.00
CP170	Mud Flush	gal	500.00	\$460.00
AF056	Liquid KCL Substitute 2	gal	1.00	\$18.40
M015	Light Equipment Mileage	mi	50.00	\$92.00
M010	Heavy Equipment Mileage	mi	100.00	\$368.00
M020	Ton Mileage	tm	458.00	\$632.04
9999	BLEND AND MIX CHARGE	SK	200.00	\$257.60
D014	Depth Charge: 3001'-4000'	job	1.00	\$2,070.00
C050	Cement Plug Container	job	1.00	\$230.00
C040	Casing Swivel	job	1.00	\$276.00
C035	Cement Data Acquisition	job	1.00	\$230.00
C025	Cement Pump - Hourly Service	hr	2.00	\$322.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$10,660.04
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		Sale Tax:	\$ -
		Total:	\$ 10,660.04
		HSI Representative:	Mike Mattal

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



Customer	DARRAH OIL COMPANY LLC	Lease & Well #	KELLER 25 C-1
Service District	PRATT	County & State	BARTON KS
Job Type	SURFACE	INJ	<input type="checkbox"/> SWD
Equipment #	912	Driver	MATTAL
Job Safety Analysis - A Discussion of Hazards & Safety Procedures	<input type="checkbox"/> Hard hat <input type="checkbox"/> Gloves <input type="checkbox"/> Eye Protection <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Slip/Trip/Fall Hazards <input type="checkbox"/> Specific Job Sequence/Expectations <input type="checkbox"/> Muster Point/Medical Locations <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Warning Signs & Flagging <input type="checkbox"/> H2S Monitor <input type="checkbox"/> Safety Footwear <input type="checkbox"/> FRC/Protective Clothing <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Fire Extinguisher <input type="checkbox"/> Additional Chemical/Acid PPE <input type="checkbox"/> Overhead Hazards <input type="checkbox"/> Additional concerns or issues noted below		
Comments	VERY COLD NIGHT AND MORNING 6 DEGREES SNOW AND WINDY		

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP070	60/40Z Pozmix	sack	400.00	\$4,784.00
CP100	Calcium Chloride	lb	1,032.00	\$712.08
CP120	Cello-flake	lb	100.00	\$161.00
M015	Light Equipment Mileage	mi	50.00	\$92.00
M010	Heavy Equipment Mileage	mi	50.00	\$184.00
M020	Ton Mileage	tm	850.00	\$1,186.80
9999	BLENDING CHARGE			\$515.20
D011	Depth Charge: 50'±-1000'	job	1.00	\$1,150.00
C035	Cement Data Acquisition	job	1.00	\$230.00
CP140	Granulated Salt	lb	150.00	\$69.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

1 2 3 4 5 6 7 8 9 10

Example: Likely

HSI Representative: **Mike Mattal**

Net: \$9,084.08
 Total Taxable: \$
 Tax Rate: %
 Sale Tax: \$
 Total: \$9,084.08

Terms: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform the services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE _____
John Long



CEMENT TREATMENT REPORT

Customer:	DARRAH OIL COMPANY LLC	Well:	KELLER 25 C-1	Ticket:	WP2282
City, State:	GREAT BEND KS	County:	BARTON KS	Date:	1/6/2022
Field Rep:		S-T-R:	25-20S-14W	Service:	SURFACE

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	306 ft
Casing Size:	8 5/8 in
Casing Depth:	293 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	16.3 bbls

Calculated Slurry - Lead	
Blend:	60/40/2 POZMIX
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	86.0 bbls
Total Sacks:	400 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
9:00 PM			-	-	ON LOCATION
2:00 AM				-	RUN 8 5/8 32# CASING
3:35 AM				-	CASING ON BOTTOM
4:00 AM				-	HOOK TO CASING
4:00 AM				-	BREAK CIRCULATION WITH RIG
4:05 AM				-	PRIME PUMP TRUCK, TRUCK FROZE UP
4:35 AM				-	CALL FOR REPLACEMENT PUMP TRUCK
8:00 AM				-	REPLACEMENT PUMP ON LOCATION
8:44 AM	5.0	300.0	86.0	86.0	MIX 400 SKS 60/40/2 POZMIX
9:10 AM	3.0	120.0		86.0	START DISPLACEMENT
9:15 AM		150.0	16.0	102.0	PLUG DOWN, SHUT IN WELL
					CEMENT TO SURFACE
				-	
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	KEVIN, KEVEN, RILEY, BRETT, & MICHAEL
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CREW		UNIT	SUMMARY		
Cementer:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	176/522	4.0 bpm	190 psi	102 bbls
Bulk #1:	FLOREZ	182/256			
Bulk #2:	BROCKMAN	179/521			

DARRAH
KELLER 25 C-1

