

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 Recompletion Date \_\_\_\_\_ 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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	WYLY A 3
Doc ID	1650004

All Electric Logs Run

Porosity
Dual Induction
Micro
Sonic





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company Inc  
125N. Market St. # 1425  
Wichita, Ks. 67202  
ATTN: Roger Martin

**26-20s-14w Barton Ks**

**Wyly A-3**

Job Ticket: 67906

**DST#: 1**

Test Start: 2022.03.07 @ 05:03:39

## GENERAL INFORMATION:

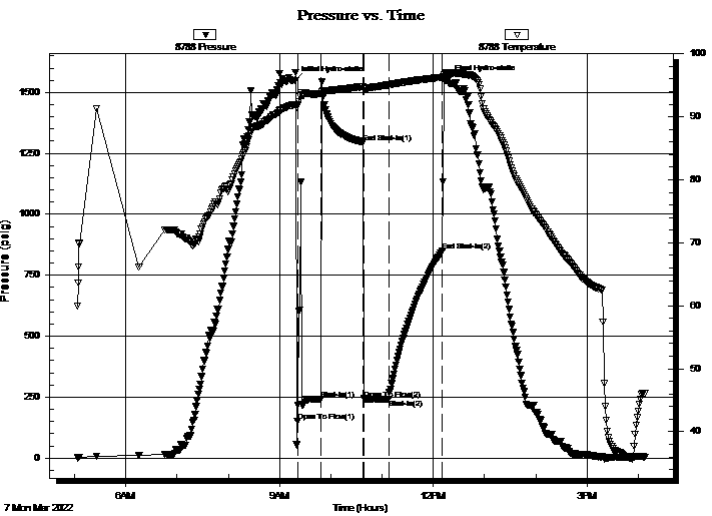
Formation: **LKC A-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:20:54  
 Time Test Ended: 16:07:39  
 Interval: **3277.00 ft (KB) To 3357.00 ft (KB) (TVD)**  
 Total Depth: 3357.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1902.00 ft (KB)  
 1891.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 8788

Inside

Press@RunDepth: 242.03 psig @ 3278.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.03.07 End Date: 2022.03.07 Last Calib.: 2022.03.07  
 Start Time: 05:03:44 End Time: 16:07:39 Time On Btm: 2022.03.07 @ 09:18:24  
 Time Off Btm: 2022.03.07 @ 12:16:54

**TEST COMMENT:** IF: Strong Blow . 10' of Fill. After Slide, Had Built to 30". Decreased. (30)  
 IS: Tool slid w hile shutting it in. No Blow . (45)  
 FF: Weak Blow . Built to 1/4" in the Bucket. Died at the end. (30)  
 FS: No Blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.45	91.95	Initial Hydro-static
3	152.15	91.74	Open To Flow (1)
31	241.08	93.69	Shut-In(1)
80	1295.20	94.81	End Shut-In(1)
81	243.17	94.48	Open To Flow (2)
110	242.03	95.06	Shut-In(2)
173	849.71	96.28	End Shut-In(2)
179	1552.20	97.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	TS OSDM 100%m	0.00
60.00	OSDM 100%m	0.46
376.00	DMv 100%m	4.50

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company Inc

**26-20s-14w Barton Ks**

125N. Market St. # 1425  
Wichita, Ks. 67202

**Wyly A-3**

Job Ticket: 67906

**DST#: 1**

ATTN: Roger Martin

Test Start: 2022.03.07 @ 05:03:39

## 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:

6000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	TS OSDM 100%m	0.000
60.00	OSDM 100%m	0.457
376.00	DMv 100%m	4.505

Total Length: 436.00 ft

Total Volume: 4.962 bbl

Num Fluid Samples: 0

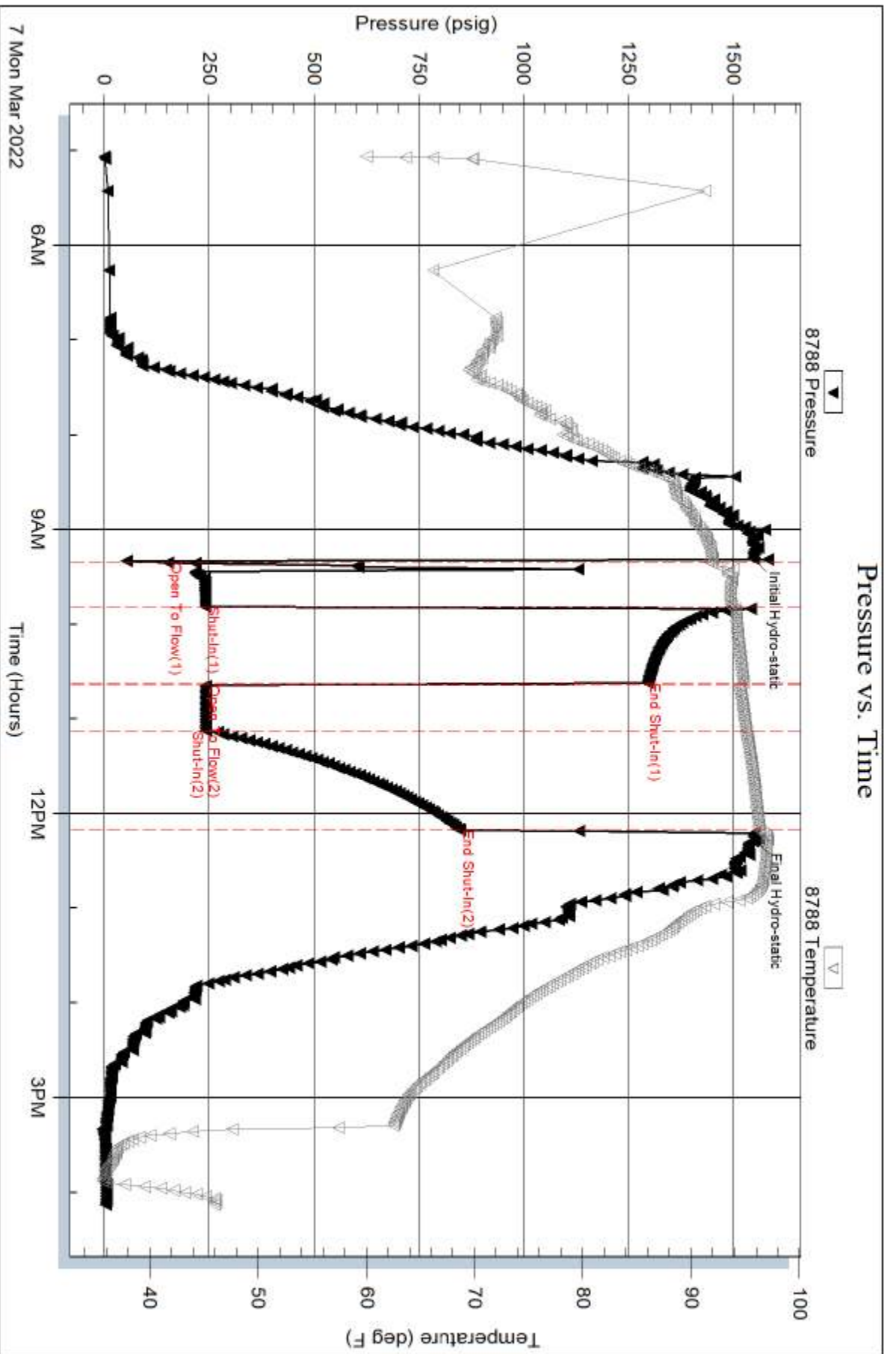
Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:





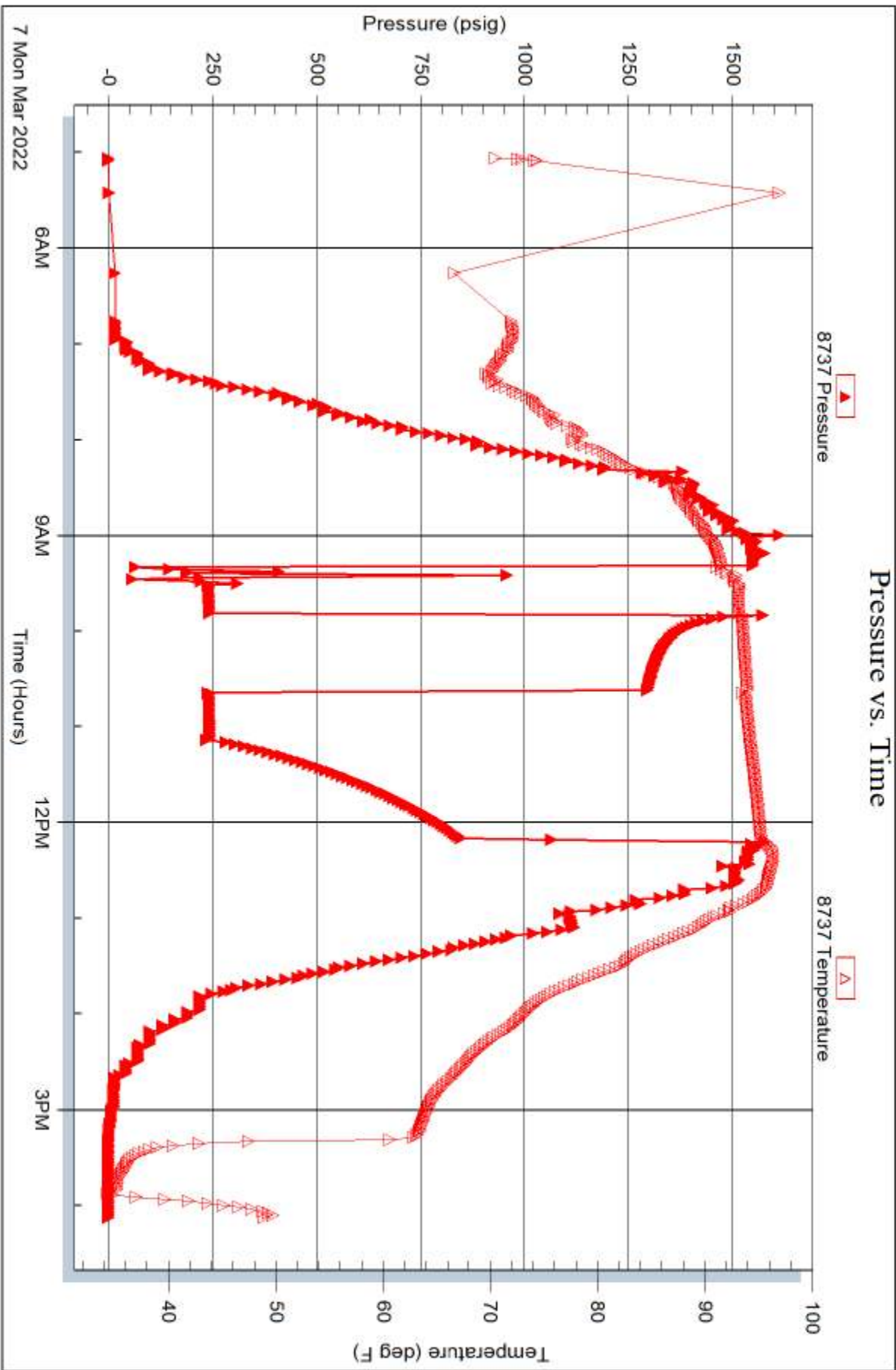
Serial #: 8737

Outside

Darrah Oil Company Inc

Wjly A-3

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company Inc  
125N. Market St. # 1425  
Wichita, Ks. 67202  
ATTN: Roger Martin

**26-20s-14w Barton Ks**

**Wyly A-3**

Job Ticket: 67907

**DST#: 2**

Test Start: 2022.03.08 @ 17:26:55

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:30:55  
 Time Test Ended: 02:30:10  
 Interval: **3488.00 ft (KB) To 3551.00 ft (KB) (TVD)**  
 Total Depth: 3551.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1902.00 ft (KB)  
 1891.00 ft (CF)  
 KB to GR/CF: 11.00 ft

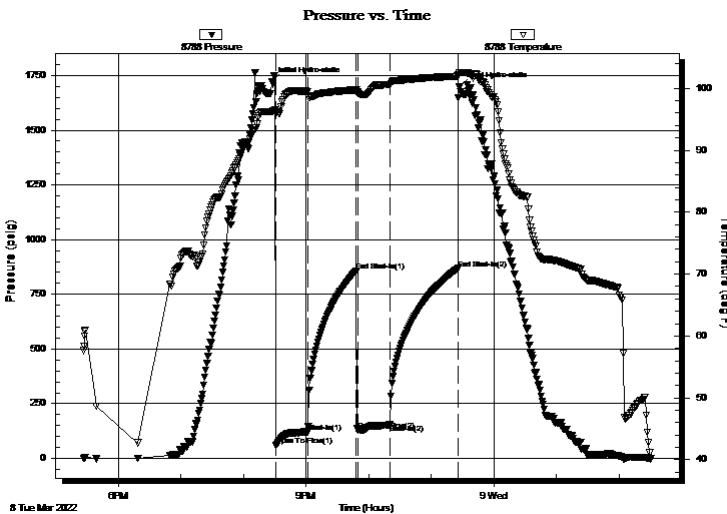
**Serial #: 8788**

**Inside**

Press@RunDepth: 153.67 psig @ 3489.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.03.08 End Date: 2022.03.09 Last Calib.: 2022.03.09  
 Start Time: 17:27:00 End Time: 02:30:10 Time On Btm: 2022.03.08 @ 20:27:25  
 Time Off Btm: 2022.03.08 @ 23:27:10

**TEST COMMENT:** IF: Strong Blow . B.O.B in 14 mins. Built to 14.66" in the Bucket. (Diesel) (30)  
 IS: Weak Blow . Built to 1" in the Bucket. (45)  
 FF: Strong Blow . B.O.B in 24 mins. Built to 64 psi. (30)  
 FS: Weak Blow . Built to 2 1/2". (60)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.92	96.29	Initial Hydro-static
4	60.28	96.10	Open To Flow (1)
35	121.47	99.48	Shut-In(1)
81	857.14	99.77	End Shut-In(1)
83	130.85	99.24	Open To Flow (2)
113	153.67	100.67	Shut-In(2)
179	867.47	102.00	End Shut-In(2)
180	1697.65	102.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	TS GOCM 2%g 60%o 38%m	0.00
60.00	GOCM 30%g 45%o 25%m	0.46
120.00	GOCM 15%g 40%o 45%m	0.91
63.00	GOCM 10%g 20%o 70%m	0.88
10.00	GOCM 5%g 45%o 50%m	0.14
68.00	CO 100%o	0.95

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company Inc  
125N. Market St. # 1425  
Wichita, Ks. 67202  
ATTN: Roger Martin

**26-20s-14w Barton Ks**

**Wyly A-3**

Job Ticket: 67907

**DST#: 2**

Test Start: 2022.03.08 @ 17:26:55

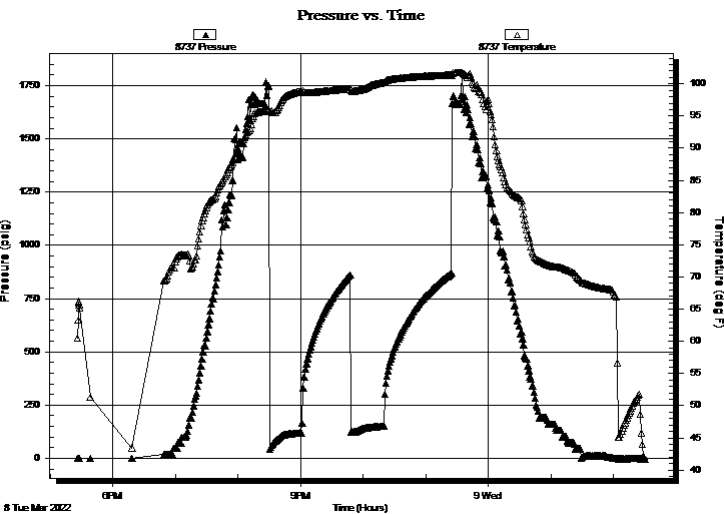
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:30:55  
 Time Test Ended: 02:30:10  
 Interval: **3488.00 ft (KB) To 3551.00 ft (KB) (TVD)**  
 Total Depth: 3551.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1902.00 ft (KB)  
 1891.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8737 Outside**

Press@RunDepth: psig @ 3489.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.03.08 End Date: 2022.03.09 Last Calib.: 2022.03.09  
 Start Time: 17:26:21 End Time: 02:29:31 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B in 14 mins. Built to 14.66" in the Bucket. (Diesel) (30)  
 IS: Weak Blow . Built to 1" in the Bucket. (45)  
 FF: Strong Blow . B.O.B in 24 mins. Built to 64 psi. (30)  
 FS: Weak Blow . Built to 2 1/2". (60)



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	TS GOCM 2%g 60%o 38%m	0.00
60.00	GOCM 30%g 45%o 25%m	0.46
120.00	GOCM 15%g 40%o 45%m	0.91
63.00	GOCM 10%g 20%o 70%m	0.88
10.00	GOCM 5%g 45%o 50%m	0.14
68.00	CO 100%o	0.95

\* 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 Inc

**26-20s-14w Barton Ks**

125N. Market St. # 1425  
Wichita, Ks. 67202

**Wyly A-3**

Job Ticket: 67907

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.03.08 @ 17:26:55

## 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:

6000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	TS GOCM 2%g 60%o 38%m	0.000
60.00	GOCM 30%g 45%o 25%m	0.457
120.00	GOCM 15%g 40%o 45%m	0.914
63.00	GOCM 10%g 20%o 70%m	0.884
10.00	GOCM 5%g 45%o 50%m	0.140
68.00	CO 100%o	0.954
0.00	145' GIP 100%g	0.000

Total Length: 321.00 ft Total Volume: 3.349 bbl

Num Fluid Samples: 0

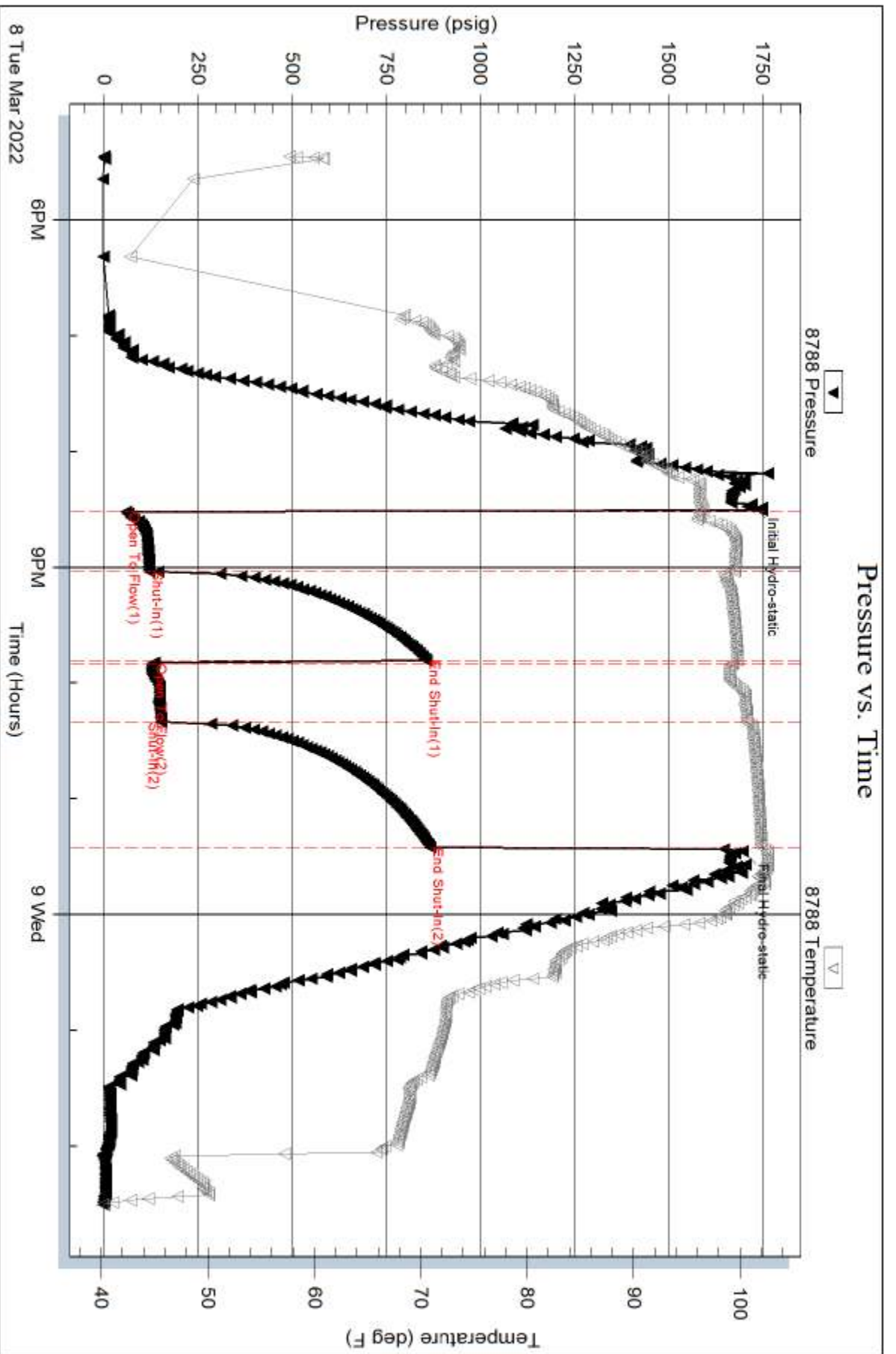
Num Gas Bombs: 0

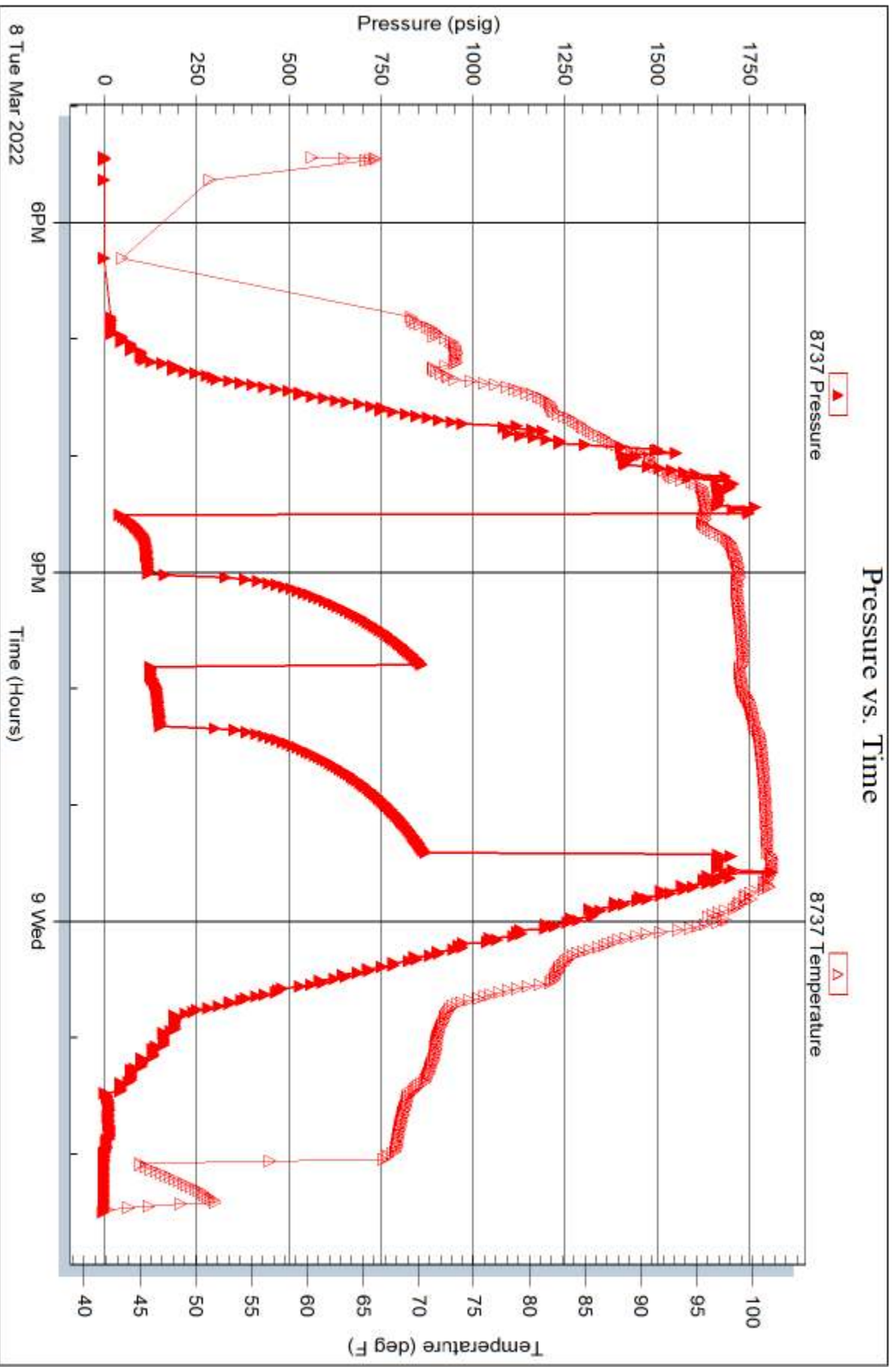
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity was 37 @ 40 Degrees = 39@60. Corrected.  
145 FT of Gas in Pipe.







# ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

<b>COMPANY</b> DARRAH OIL COMPANY, LLC	<b>ELEVATIONS</b>
<b>LEASE</b> WYLY A 3	<b>KB</b> 1909' <b>GL</b> 1898'
<b>FIELD</b> PRITCHARD	<b>Measurements Are All From</b> KB
<b>LOCATION</b> 1542' FSL & 1872' FEL	<b>API #</b> 15-009-26333
<b>SECTION</b> 26 <b>TOWNSHIP</b> 20S <b>RANGE</b> 14W	
<b>COUNTY</b> BARTON <b>STATE</b> KANSAS	
<b>CONTRACTOR</b> MURFIN DRILLING, Rig #20	<b>CASING</b>
<b>SPUD</b> 03/03/2022 <b>COMP</b> 03/10/2022	<b>SURFACE</b> 8 5/8" set @ 333' w/ 400 sks H1325.
<b>RTD</b> 3551' <b>LTD</b>	<b>PRODUCTION</b> 5 1/2" set @ 3540' w/ 150 sks H-Long
<b>ELECTRICAL SURVEYS</b>	
Midwest Wireline: DIL, CNL/CDL, MEL/BHCS	

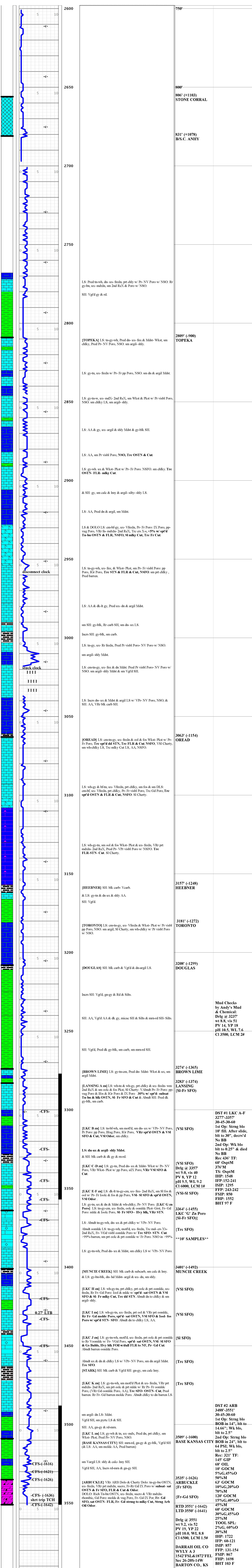
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
STONE CORRAL/ANHYDRITE	807' (+1102)	806' (+1103)	03/02/2022- MIRU Murfin Drilling, Rig #20.
BASE SC/ANHYDRITE	828' (+1081)	831' (+1078)	03/03/2022- SPUD 12 1/4" hole & set 8 5/8" surface casing @ 333' w/ 400 sks H1325. Plug down @ 6:30 PM.
TOPEKA	2811' (-902)	2809' (-900)	03/04/2022- Drilling @ 633' @ 8 AM.
OREAD	3063' (-1154)	3063' (-1154)	03/04/2022- Drilling @ 633' @ 8 AM.
HEEBNER	3157' (-1248)	3157' (-1248)	03/05/2022- Drilling @ 1936' @ 8 AM.
TORONTO	3193' (-1284)	3181' (-1272)	03/06/2022- Drilling @ 2920' @ 8 AM. Displace mud system @ 3000'.
DOUGLAS	3215' (-1306)	3208' (-1299)	03/07/2022- DST #1 @ 3357' @ 8 AM.
BROWN LIME	3275' (-1366)	3274' (-1365)	03/08/2022- Drilling @ 3530' @ 8 AM. Run DST #2.
LANSING	3285' (-1376)	3283' (-1374)	3551' @ 8 AM. Set @ 3540' w/ 150 sks H-Long, 30 RHT
LKC 'G' zn Porosity	3366' (-1457)	3364' (-1455)	03/09/2022- TOH @ RTD 3551' @ 8 AM. Run OH E-logs.
MUNCIE CREEK	3405' (-1496)	3401' (-1492)	
BASE KANSAS CITY	3512' (-1603)	3509' (-1600)	03/10/2022- Running 5 1/2" production casing @ RTD & 20 NHI. Plug down @ 10 AM.
ARBUCKLE	3534' (-1625)	3535' (-1626)	
RTD/LTD	3550' (-1641)	3551' (-1642)	03/11/2022- Rig down Murfin Drilling, Rig #20.

**REMARKS:**

PRODUCTION CASING: Cemented by HSL03/10/2022, Ticket # WP2507.  
 Run new 84 jts new 5 1/2" 140 casing, Circulate 1 hr, break circulation.  
 Pump 5 bbl H2O, pump 12 bbl mud flush, pump 5 bbl H2O. Mix 150 sks  
 Mix 150 sks H-Long cement, 150 ppv, yield = 30 bbl, wash pump and lines.  
 Start displacement, Plug down @ 10 AM 03/10/2022. 100k pressure from  
 800- 1600 psi. Release pressure, Plug lead.  
 30 sks H-Plug for rat hole, 20 sks H-Plug for mouse hole.

Run basket on top of #3. Centralizers on #2 @ -3455', #4 @ -3370', #6 @ -3286'  
 #8 @ -3200' & #10 @ -3118'. 3544' -43' shoe joint = 3501'0.2bbl/ft = 85.4 bbl.

Respectfully submitted,  
 Roger L. Martin, Geologist







**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company Inc  
 125N. Market St. # 1425  
 Wichita, Ks. 67202  
 ATTN: Roger Martin

**26-20s-14w Barton Ks**

**Wyly A-3**

Job Ticket: 67906 **DST#: 1**  
 Test Start: 2022.03.07 @ 05:03:39

## GENERAL INFORMATION:

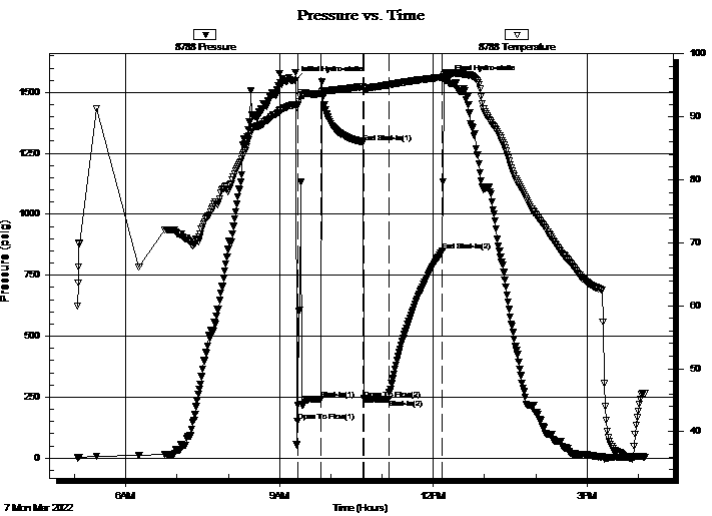
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 Interval: **3277.00 ft (KB) To 3357.00 ft (KB) (TVD)**  
 Total Depth: 3357.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1902.00 ft (KB)  
 1891.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 8788

Inside

Press@RunDepth: 242.03 psig @ 3278.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.03.07 End Date: 2022.03.07 Last Calib.: 2022.03.07  
 Start Time: 05:03:44 End Time: 16:07:39 Time On Btm: 2022.03.07 @ 09:18:24  
 Time Off Btm: 2022.03.07 @ 12:16:54

**TEST COMMENT:** IF: Strong Blow . 10' of Fill. After Slide, Had Built to 30". Decreased. (30)  
 IS: Tool slid w hile shutting it in. No Blow . (45)  
 FF: Weak Blow . Built to 1/4" in the Bucket. Died at the end. (30)  
 FS: No Blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.45	91.95	Initial Hydro-static
3	152.15	91.74	Open To Flow (1)
31	241.08	93.69	Shut-In(1)
80	1295.20	94.81	End Shut-In(1)
81	243.17	94.48	Open To Flow (2)
110	242.03	95.06	Shut-In(2)
173	849.71	96.28	End Shut-In(2)
179	1552.20	97.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	TS OSDM 100%m	0.00
60.00	OSDM 100%m	0.46
376.00	DMv 100%m	4.50

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Darrah Oil Company Inc  
125N. Market St. # 1425  
Wichita, Ks. 67202  
ATTN: Roger Martin

**26-20s-14w Barton Ks**  
**Wyly A-3**  
Job Ticket: 67906      **DST#: 1**  
Test Start: 2022.03.07 @ 05:03:39

## Mud and Cushion Information

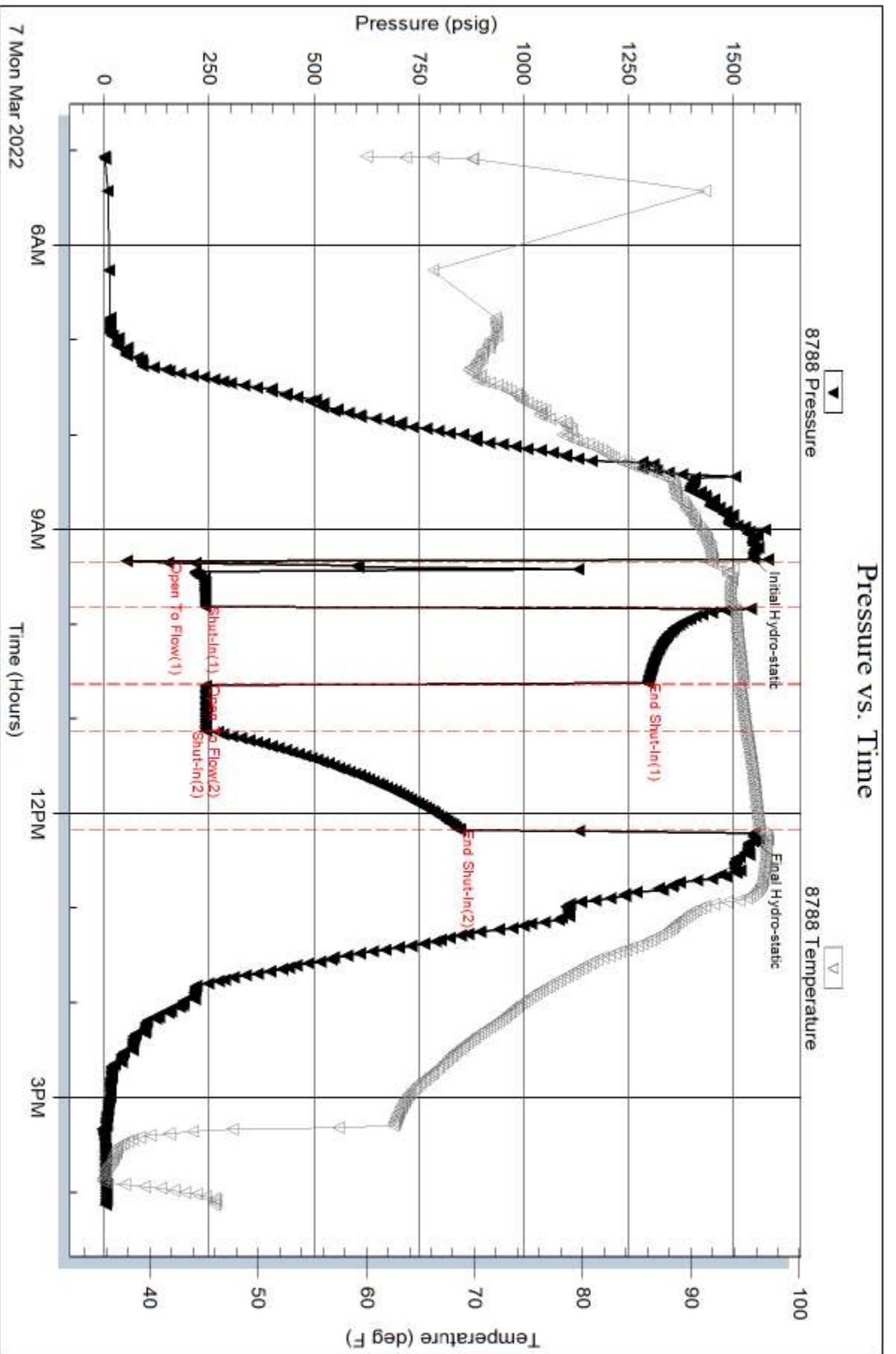
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	6000 ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	TS OSDM 100%m	0.000
60.00	OSDM 100%m	0.457
376.00	DMv 100%m	4.505

Total Length: 436.00 ft      Total Volume: 4.962 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: None  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



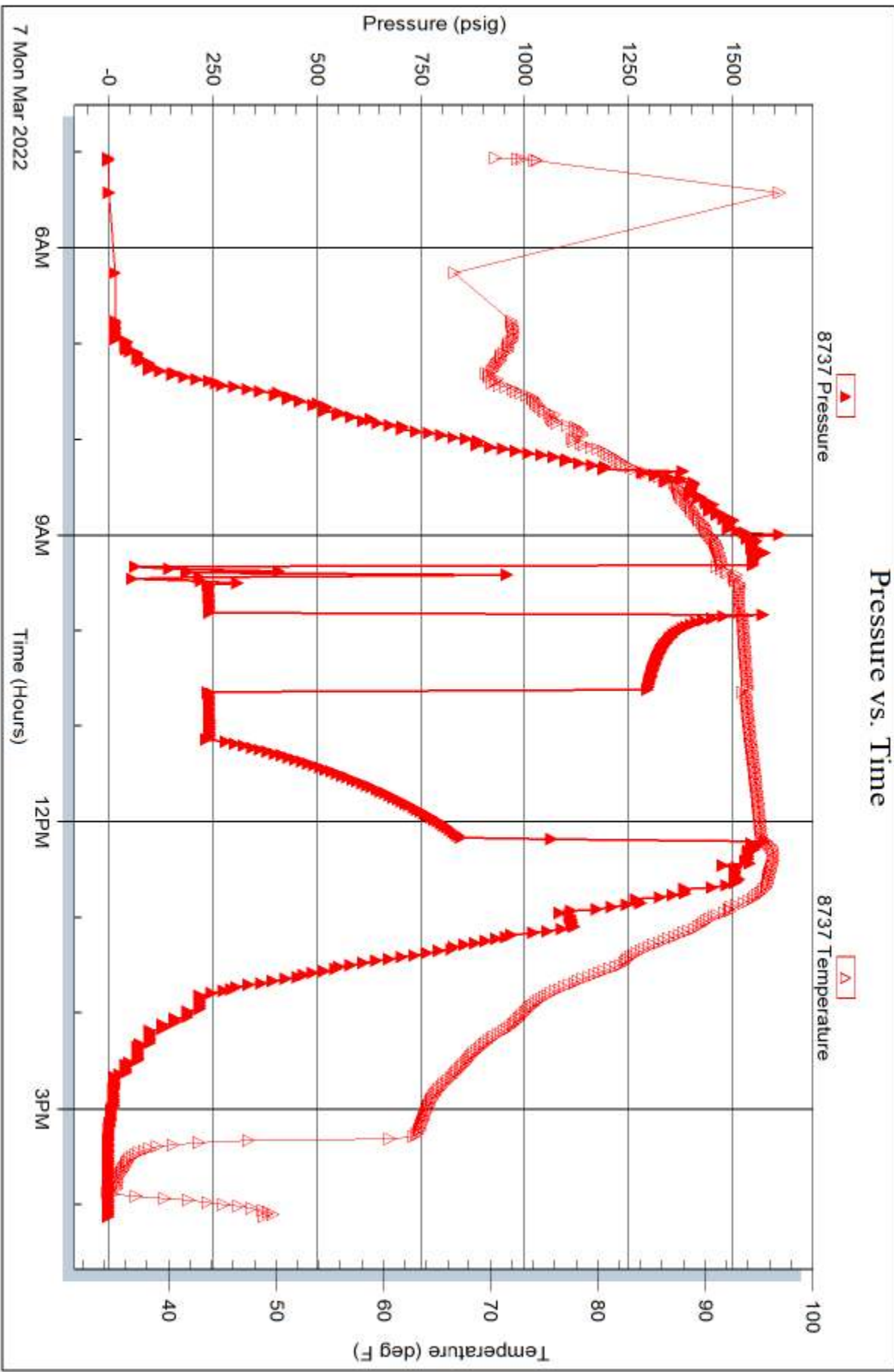
Serial #: 8737

Outside

Darrah Oil Company Inc

Wjly A-3

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Darrah Oil Company Inc  
125N. Market St. # 1425  
Wichita, Ks. 67202  
ATTN: Roger Martin

**26-20s-14w Barton Ks**

**Wyly A-3**

Job Ticket: 67907

**DST#: 2**

Test Start: 2022.03.08 @ 17:26:55

## GENERAL INFORMATION:

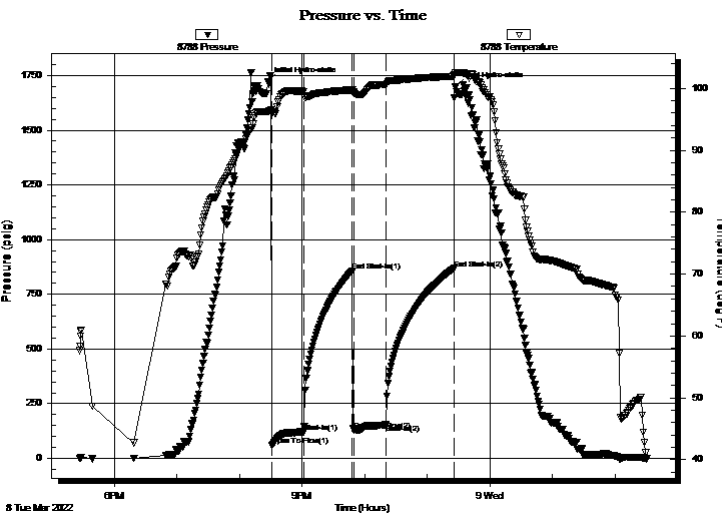
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:30:55  
 Time Test Ended: 02:30:10  
 Interval: **3488.00 ft (KB) To 3551.00 ft (KB) (TVD)**  
 Total Depth: 3551.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1902.00 ft (KB)  
 1891.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 8788

Inside

Press@RunDepth: 153.67 psig @ 3489.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.03.08 End Date: 2022.03.09 Last Calib.: 2022.03.09  
 Start Time: 17:27:00 End Time: 02:30:10 Time On Btm: 2022.03.08 @ 20:27:25  
 Time Off Btm: 2022.03.08 @ 23:27:10

TEST COMMENT: IF: Strong Blow . B.O.B in 14 mins. Built to 14.66" in the Bucket. (Diesel) (30)  
 IS: Weak Blow . Built to 1" in the Bucket. (45)  
 FF: Strong Blow . B.O.B in 24 mins. Built to 64 psi. (30)  
 FS: Weak Blow . Built to 2 1/2". (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.92	96.29	Initial Hydro-static
4	60.28	96.10	Open To Flow (1)
35	121.47	99.48	Shut-In(1)
81	857.14	99.77	End Shut-In(1)
83	130.85	99.24	Open To Flow (2)
113	153.67	100.67	Shut-In(2)
179	867.47	102.00	End Shut-In(2)
180	1697.65	102.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	TS GOCM 2%g 60%o 38%m	0.00
60.00	GOCM 30%g 45%o 25%m	0.46
120.00	GOCM 15%g 40%o 45%m	0.91
63.00	GOCM 10%g 20%o 70%m	0.88
10.00	GOCM 5%g 45%o 50%m	0.14
68.00	CO 100%o	0.95

## 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 Inc

**26-20s-14w Barton Ks**

125N. Market St. # 1425  
Wichita, Ks. 67202

**Wyly A-3**

Job Ticket: 67907

**DST#: 2**

ATTN: Roger Martin

Test Start: 2022.03.08 @ 17:26:55

## 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:

6000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	TS GOCM 2%g 60%o 38%m	0.000
60.00	GOCM 30%g 45%o 25%m	0.457
120.00	GOCM 15%g 40%o 45%m	0.914
63.00	GOCM 10%g 20%o 70%m	0.884
10.00	GOCM 5%g 45%o 50%m	0.140
68.00	CO 100%o	0.954
0.00	145' GIP 100%g	0.000

Total Length: 321.00 ft Total Volume: 3.349 bbl

Num Fluid Samples: 0

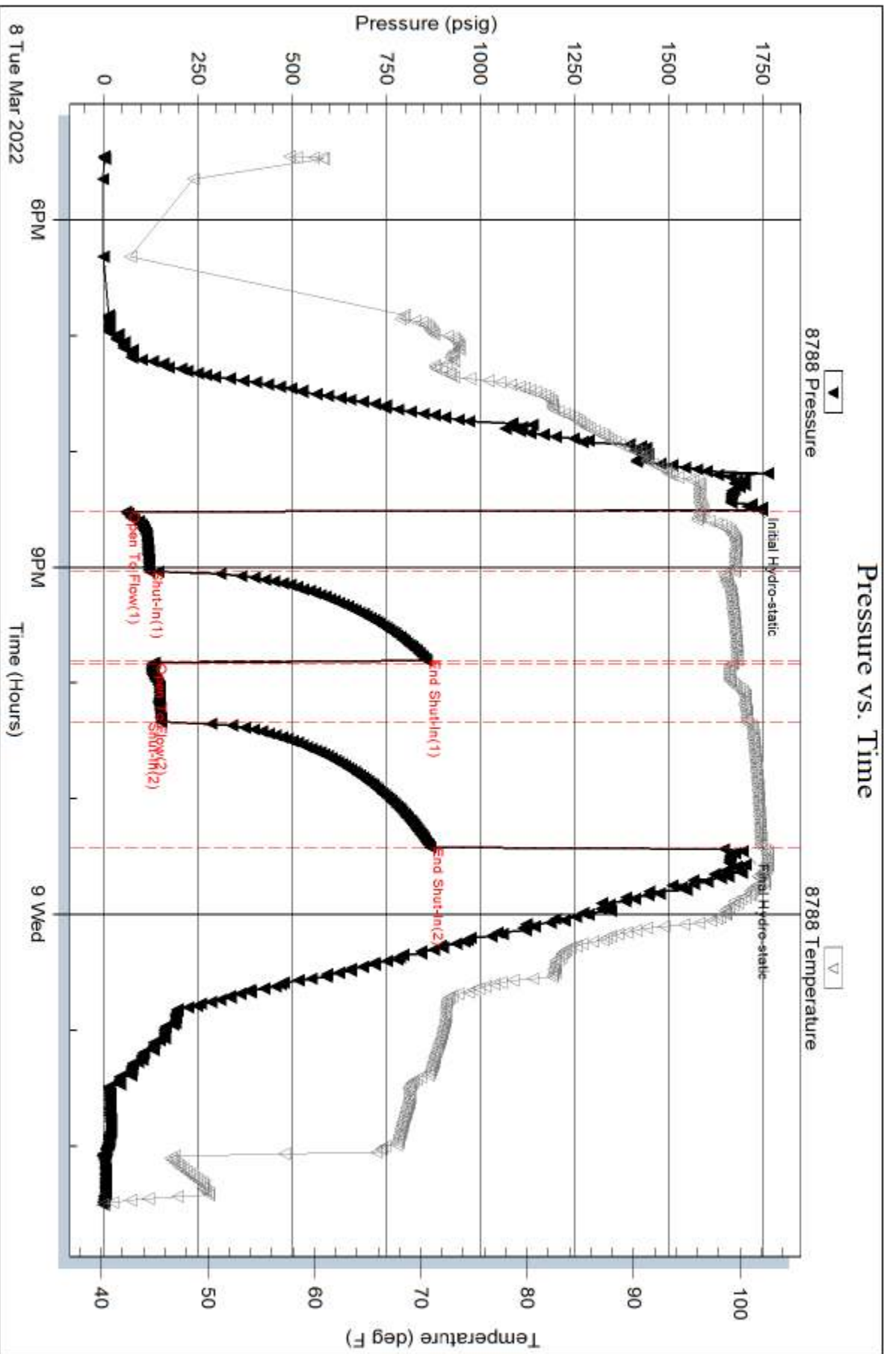
Num Gas Bombs: 0

Serial #: None

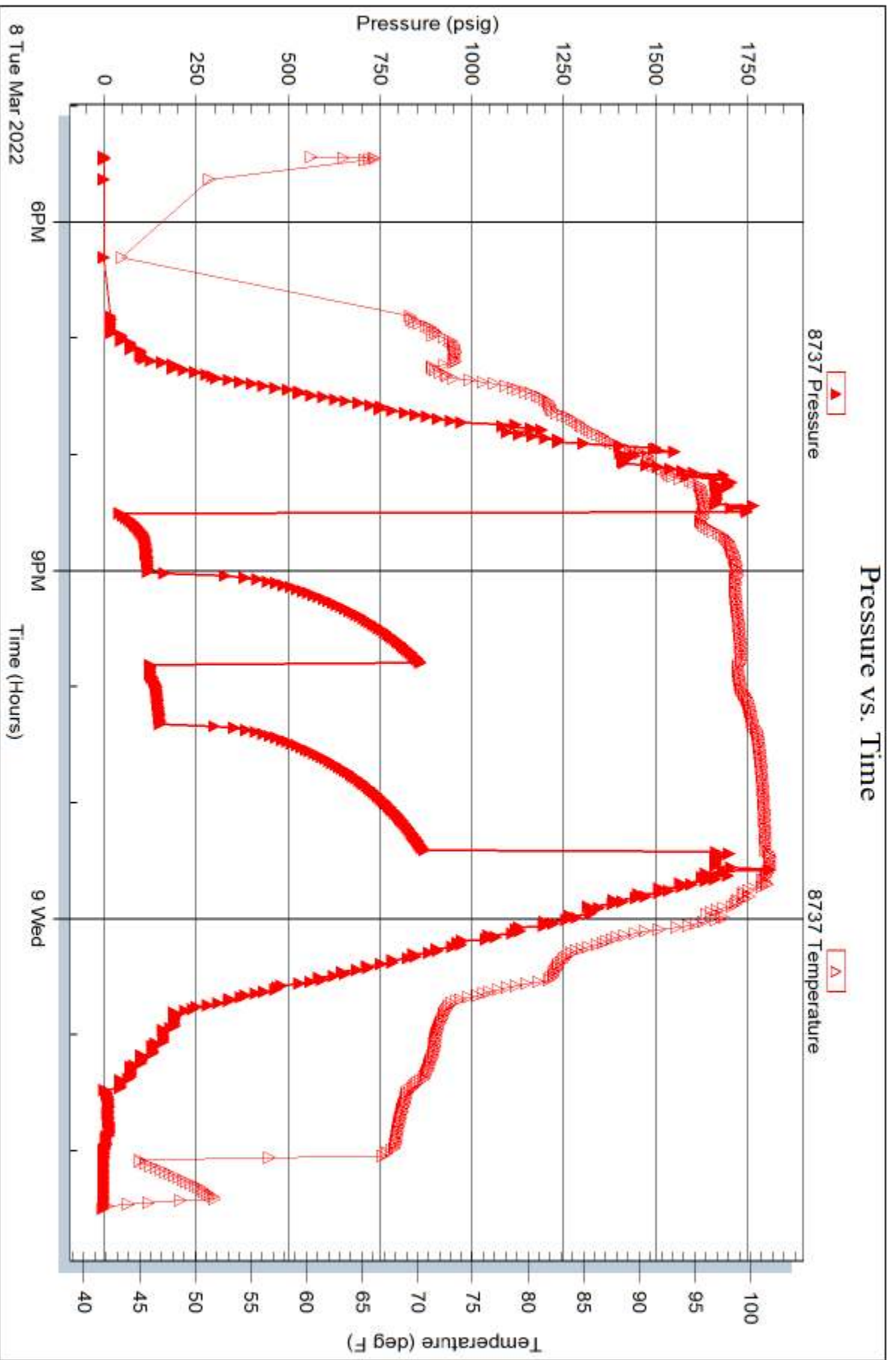
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity was 37 @ 40 Degrees = 39@60. Corrected.  
145 FT of Gas in Pipe.









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: 3/10/2022  
 Invoice #: 0359446  
 Lease Name: Wyly A  
 Well #: 3  
 County: Barton, Ks  
 Job Number: WP2507  
 District: Pratt

Date/Description	HRS/QTY	Rate	Total
Production Casing	0.000	0.000	0.00
H-Long	150.000	25.760	3,864.00
H-Plug	50.000	11.960	598.00
5 1/2" Floatshoe-Flapper AFU	1.000	345.000	345.00
5 1/2" LD Plug & Baffle	1.000	322.000	322.00
Cement baskets 5 1/2"	1.000	276.000	276.00
5 1/2" Turbolizers	5.000	73.600	368.00
Mud flush	500.000	0.920	460.00
Liquid KCL Substitute 2	1.000	18.400	18.40
Light Eq Mileage	50.000	1.840	92.00
Heavy Eq Mileage	100.000	3.680	368.00
Ton Mileage	458.000	1.380	632.04
Cement Blending & Mixing	200.000	1.288	257.60
Depth Charge 3001'-4000'	1.000	2,070.000	2,070.00
Cement Plug Container	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00
Cement Pump-Hourly Service	3.000	161.000	483.00

**Total** 10,659.04

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% 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!**







**CEMENT TREATMENT REPORT**

Customer: Darrah Oil Company	Well: Wyly A-3	Ticket: wp 2507
City, State: Great Bend Kansas	County: Barton Kansas	Date: 3/10/2022
Field Rep: Rodger Martin	S-T-R: 26-20s-14w	Service: Production casing

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3551 ft
Casing Size:	5 1/2 in
Casing Depth:	3549 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbbls

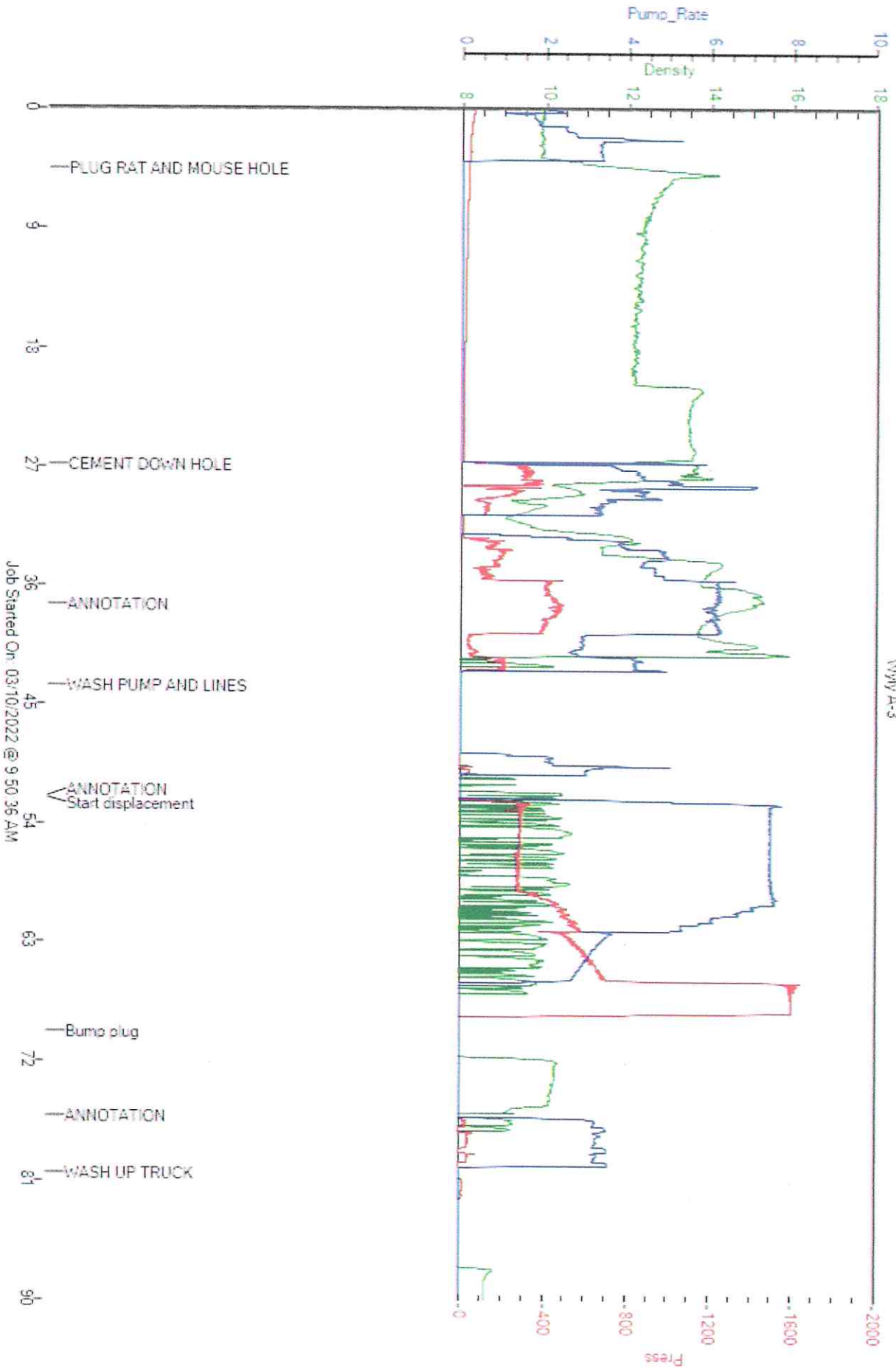
Calculated Slurry - Lead	
Blend:	H-Long
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	38.0 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.7 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	13.0 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
1:45 AM			-	-	on location job and safety
1:55 AM				-	spot trucks and rig up
				-	turbolizers 2,4,6,8,10
				-	basket 3
5:10 AM				-	start casing in the hole
7:25 AM				-	on bottom and circulate
8:30 AM				-	start flush
	5.0	200.0	5.0	5.0	fresh water
	5.0	200.0	12.0	17.0	mud flush
	5.0	200.0	5.0	22.0	fresh water
9:00 AM	2.0	-	13.0		plug rat and mouse,,,,,,rat hole 30 sacks,,,,mouse hole 20 sack
9:20 AM		300.0	38.0		start cement down hole
					mix 150 sacks cement
9:40 AM					cement in and shut down
					wash pump and lines
9:50 AM					start displacement
	7.0	200.0	20.0		
	7.0	200.0	40.0		
	7.0	300.0	50.0		
	5.0	450.0	60.0		
	3.5	500.0	70.0		
10:00 AM	3.0	800.0	83.3		plug down ,,,,,,took pressure from 800 psi to 1600 psi
					release pressure and plug held

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	R Osborn	523/522	5.0 bpm	305 psi	396 bbls
Bulk #1:	J Travino	523/534			
Bulk #2:					

Darrah  
WY/A-3









DARRAH  
WVLY

