

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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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	BITTER C 11
Doc ID	1657520

All Electric Logs Run

micro
sonic
dual induction
porosity

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY DARRAH OIL COMPANY, LLC	ELEVATIONS
LEASE BITTER C 11	KB 1936' GL 1931'
FIELD TRAPP	Measurements Are All
LOCATION 330' FNL & 1589' FEL	From KB
SECTION 18 TOWNSHIP 16S RANGE 13W	API # 15-009-26343
COUNTY BARTON STATE KANSAS	
CONTRACTOR MURFIN DRILLING, Rig #104	CASING
SPUD 04/01/2022 COMP 04/08/2022	SURFACE 8 5/8" set @ 476'w/
RTD 3377' (-1441) LTD 3376' (-1440)	375 sks Common, 4% cc
ELECTRICAL SURVEYS	PRODUCTION 5 1/2" set @ 3373'
ELI: DIL, CNL/CDL/PE	w/175 sks 60/40 Poz
MEL/SON	

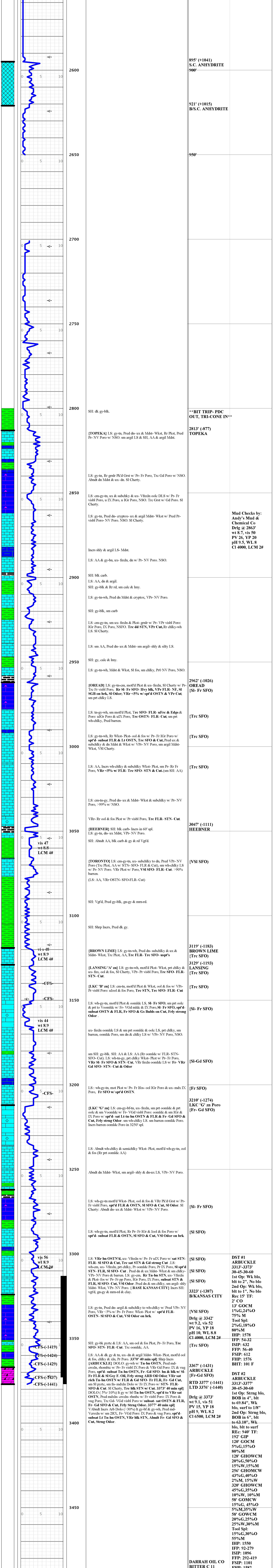
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
STONE CORRAL/ ANHYDRITE	894' (+1042)	895' (+1041)	04/01/2022- MURF Murfin Drilling, Rig #104.
BASE SC/ ANHYDRITE	922' (+1014)	921' (+1015)	DTD 476'.
TOPEKA	2814' (-878)	2813' (-877)	04/02/2022- Run 8 5/8" surface casing @ 476' @ 8 AM. Job complete @ 10:15 AM. WOC
OREAD	2963' (-1027)	2962' (-1026)	04/03/2022- Down for rig repairs @ 1540' @ 8 AM.
HEEBNER	3046' (-1110)	3047' (-1111)	04/04/2022- Drilling @ 1980' @ 8 AM. Displace mud system @ 2614' (700 bbl).
BROWN LIME	3120' (-1184)	3119' (-1183)	04/05/2022- Drilling @ 2799' @ 8 AM.
LANSING	3211' (-1275)	3210' (-1274)	04/06/2022- Drilling @ 3255' @ 8 AM.
LKC 'G' zn Porosity	3263' (-1327)	3262' (-1326)	Run DST #1, 3313'-3373'.
MUNCIE CREEK	3323' (-1387)	3323' (-1387)	SHS @ 3373 = 3/4 deg.
BASE KANSAS CITY	3323' (-1387)	3323' (-1387)	
ARBUCKLE	3366' (-1430)	3367' (-1431)	04/07/2022- DTD 3373' @ 8 AM. Run DST #2, 3313-3377'.
RTD/LTD	3376' (-1440)	3377' (-1441)	04/08/2022- RTD 3377'. LDDP & set 5 1/2" production casing @ 3373' w/175 sks 60/40 poz. Job complete 6:45 PM.

REMARKS:

5 1/2" production casing was set @ 3373' on the Darrah Oil Company Bitter 'C' #1 test well.

Respectfully submitted,
Roger L. Martin, Geologist

LITH POROSITY DRILLING TIME MIN/FT DST SAMPLE DESCRIPTION 0 TGV 300



Mud Checks by:
Andy's Mud & Chemical Co
Drilg @ 2863'
wt 8.7, vis 50
pH 9.5, WL 8
Cl 4000, LCM 2#

DST #1
ARBUCCKLE
3313'-3373'
30-45-30-60
1st Op: Wk blo,
blt to 2", No blo
2nd Op: Wk blo,
blt to 1", No blo
Rec 15' TF:
2' CO
13' GOCM
1%G, 24%O
75% M
Tool Spt:
2%G, 18%O
80% M
IHP: 1578
IFP: 54-32
IFP: 632
FFP: 56-40
FSIP: 612
FHP: 1576
BHT: 101 F

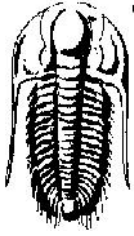
ARBUCCKLE
{Fr-Gd SFO}

DRILG @ 3342'
wt 9.2, vis 52
PV 16, YP 18
pH 10, WL 8.8
Cl 4000, LCM 2#

DRILG @ 3373'
wt 9.1, vis 51
PV 15, YP 18
pH 9, WL 8.2
Cl 6500, LCM 2#

DST #2
ARBUCCKLE
3313'-3377'
30-45-30-60
1st Op: Strng blo,
BOB in 4", surf
to 69.84", Wk
blo, surf to 1/8"
2nd Op: Strng blo,
BOB in 6", blt
to 63.10", surf
blo, blt to work
REc: 940' TF:
192' GIP
120' GOCM
5%G, 15%O
80% M
128' GHOWCM
20%G, 50%O
15%W, 15%M
25' GHOWCM
43%G, 40%O
2%M, 15%W
320' GHOWCM
45%G, 35%O
10%W, 10%M
58' GOWCW
15%G, 45%O
58' GOWCM
20%G, 25%O
25%W, 30%M
Tool Spt:
15%G, 30%O
55%M
IHP: 1550
IFP: 92-279
ISIP: 1096
FFP: 292-419
FSIP: 1101
FHP: 1582
BHT: 108 F

DARRAH OIL CO
BITTER C 11
330' FNL & 1589' FEL
Sec 18-16S-13W
BARTON CO, KS
15-009-26343



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-16s-13w Barton Ks
Bitter C # 11
 Job Ticket: 67915 **DST#: 1**
 Test Start: 2022.04.06 @ 22:38:17

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:43:47
 Time Test Ended: 05:51:17
 Interval: **3313.00 ft (KB) To 3373.00 ft (KB) (TVD)**
 Total Depth: 3373.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1936.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 5.00 ft

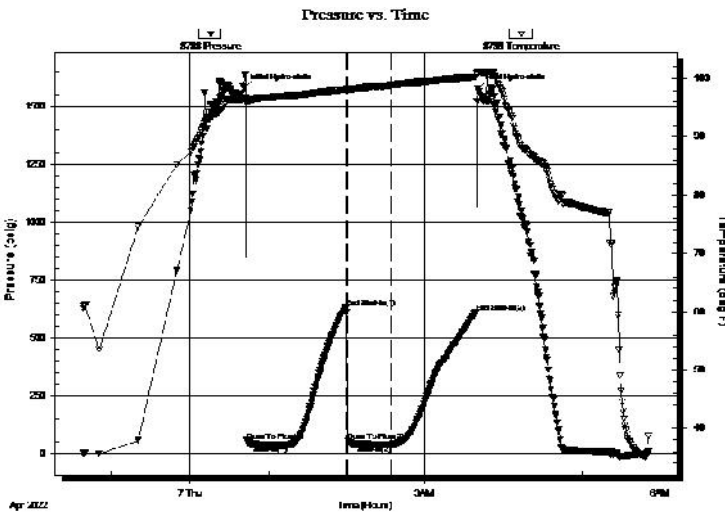
Serial #: 8788

Inside

Press@RunDepth: 39.79 psig @ 3314.00 ft (KB)
 Start Date: 2022.04.06 End Date: 2022.04.07
 Start Time: 22:38:22 End Time: 05:51:16
 Capacity: 8000.00 psig
 Last Calib.: 2022.04.07
 Time On Btm: 2022.04.07 @ 00:41:17
 Time Off Btm: 2022.04.07 @ 03:40:32

TEST COMMENT: IF: Weak Blow . Built to 2". (30)
 IS: No Blow . (45)
 FF: Weak Blow . Built to 1.03". (30)
 FS: No Blow . (60)

PRESSURE SUMMARY



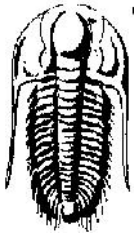
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.87	96.60	Initial Hydro-static
3	53.81	96.22	Open To Flow (1)
34	37.32	97.02	Shut-In(1)
79	632.24	98.18	End Shut-In(1)
80	56.16	98.31	Open To Flow (2)
114	39.79	98.92	Shut-In(2)
178	612.12	100.38	End Shut-In(2)
180	1576.36	101.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
13.00	GOCM 1%g 24%o 75%m	0.10
2.00	CO 100%o	0.02
0.00	75' GIP 100%g	0.00
0.00	TS GOCM 2%g 18%o 80%m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah Oil Company

18-16s-13w Barton Ks

125 N Market St #1425
Wichita, Ks. 67202

Bitter C # 11

Job Ticket: 67915

DST#: 1

ATTN: Roger Martin

Test Start: 2022.04.06 @ 22:38:17

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:43:47

Time Test Ended: 05:51:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3313.00 ft (KB) To 3373.00 ft (KB) (TVD)

Reference Elevations: 1936.00 ft (KB)

Total Depth: 3373.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8737

Outside

Press@RunDepth: psig @ 3314.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.06

End Date:

2022.04.07

Last Calib.:

2022.04.07

Start Time: 22:38:51

End Time:

05:52:00

Time On Btm:

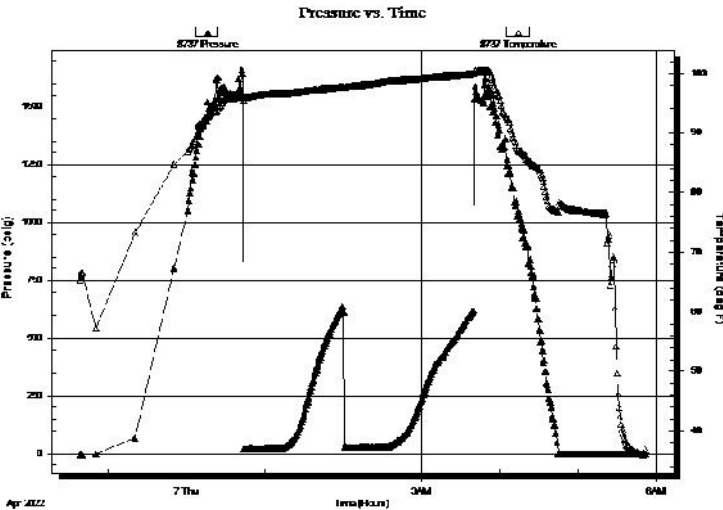
Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 2" . (30)

IS: No Blow . (45)

FF: Weak Blow . Built to 1.03" . (30)

FS: No Blow . (60)



PRESSURE SUMMARY

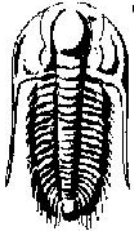
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
13.00	GOCM 1%g 24%o 75%m	0.10
2.00	CO 100%o	0.02
0.00	75' GIP 100%g	0.00
0.00	TS GOCM 2%g 18%o 80%m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company

18-16s-13w Barton Ks

125 N Market St #1425
Wichita, Ks. 67202

Bitter C # 11

Job Ticket: 67915

DST#: 1

ATTN: Roger Martin

Test Start: 2022.04.06 @ 22:38:17

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:

4000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
13.00	GOCM 1%g 24%o 75%m	0.099
2.00	CO 100%o	0.015
0.00	75' GIP 100%g	0.000
0.00	TS GOCM 2%g 18%o 80%m	0.000

Total Length: 15.00 ft Total Volume: 0.114 bbl

Num Fluid Samples: 0

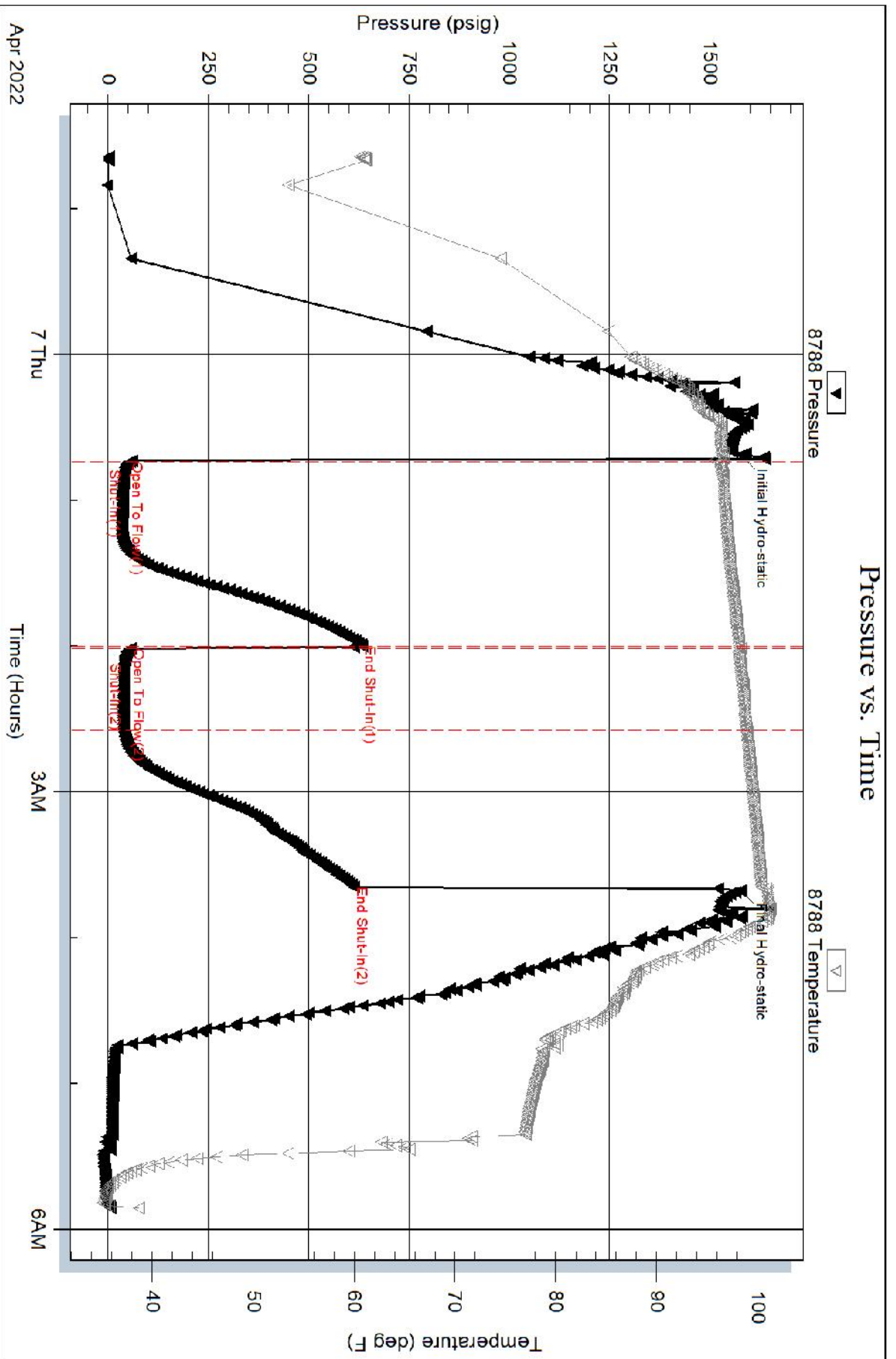
Num Gas Bombs: 0

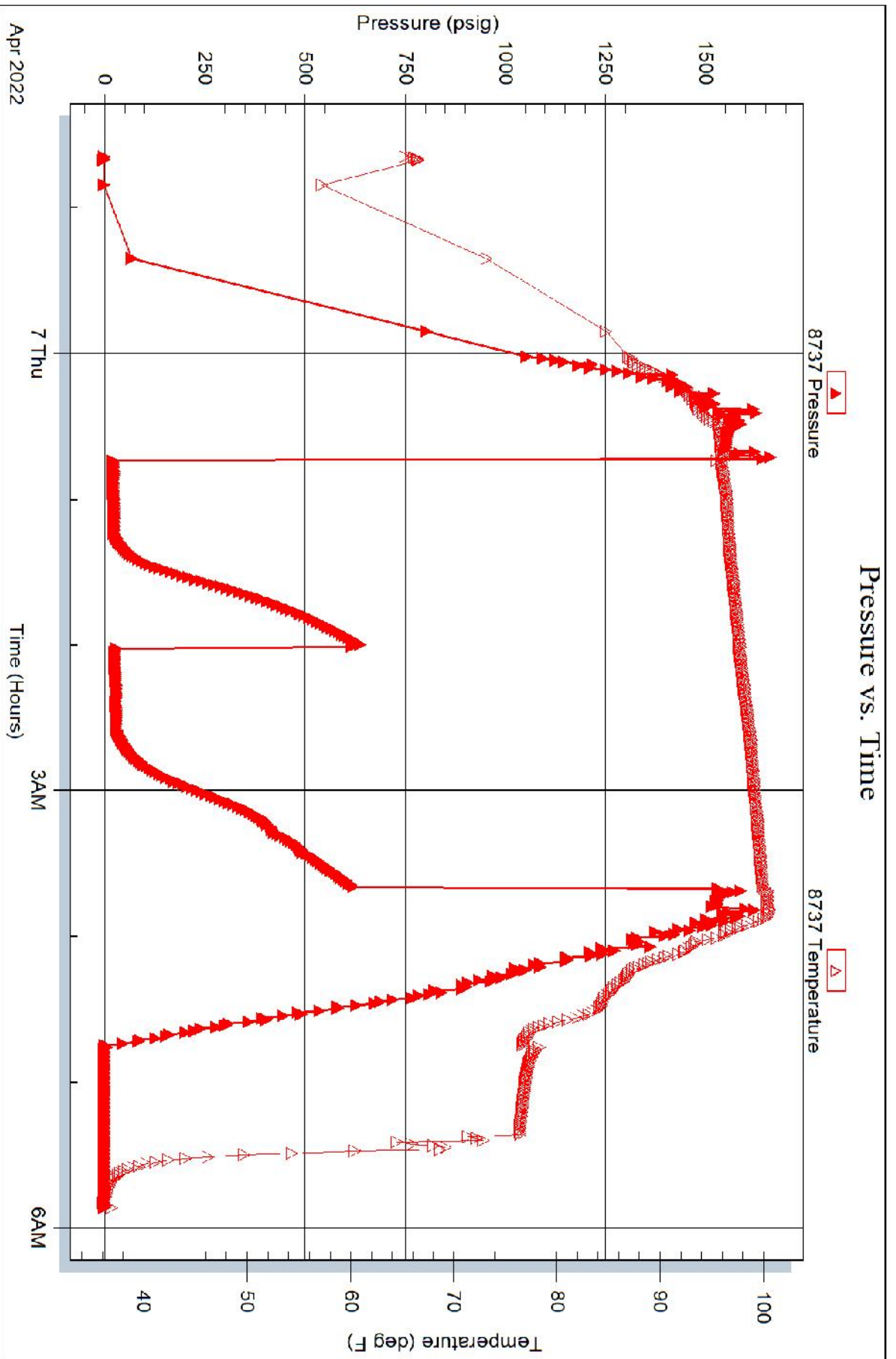
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool Sample GOCM 2 gas 18 oil 80 mud
75 Feet of Gas in Pipe.







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

18-16s-13w Barton Ks
Bitter C # 11
Job Ticket: 67916 **DST#: 2**
Test Start: 2022.04.07 @ 12:31:18

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:43:03
Time Test Ended: 21:02:33
Interval: **3313.00 ft (KB) To 3377.00 ft (KB) (TVD)**
Total Depth: 3377.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1936.00 ft (KB)
1931.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68

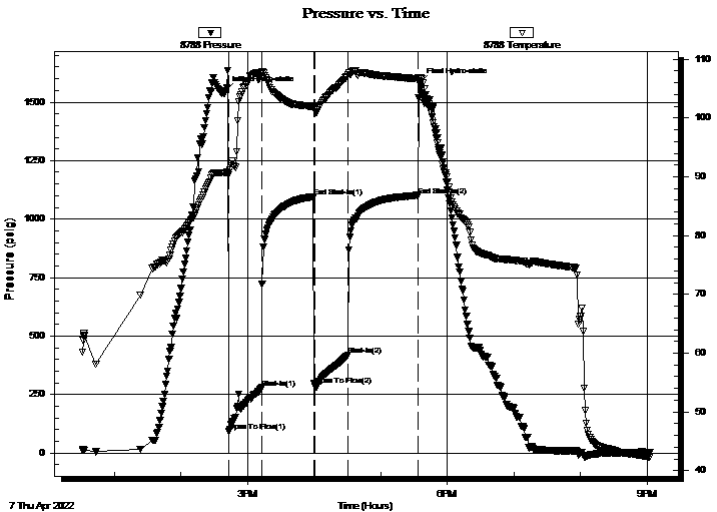
Serial #: 8788

Inside

Press@RunDepth: 419.49 psig @ 3314.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.04.07 End Date: 2022.04.07 Last Calib.: 2022.04.07
Start Time: 12:31:23 End Time: 21:02:32 Time On Btm: 2022.04.07 @ 14:40:03
Time Off Btm: 2022.04.07 @ 17:35:03

TEST COMMENT: IF: Strong Blow . B.O.B. in 4 mins. Built to 69.84". (30)
IS: Weak Blow . Surface to 1/8". (45)
FF: Strong Blow . B.O.B. in 6 mins. Built to 63.10". (30)
FS: Weak Blow . Built to Surface. (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.62	90.73	Initial Hydro-static
3	91.86	90.32	Open To Flow (1)
33	278.96	107.53	Shut-In(1)
80	1095.99	101.94	End Shut-In(1)
81	292.31	101.45	Open To Flow (2)
111	419.49	107.39	Shut-In(2)
174	1101.12	106.64	End Shut-In(2)
175	1581.57	105.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GOWCM 20%g 25%o 25%w 30%m	0.44
58.00	GOMCW 15%g 45%o 5%m 35%w	0.44
320.00	GHOWCM 45%g 35%o 10%w 10%m	4.49
256.00	GHOMCW 43%g 40%o 2%m 15%w	3.59
128.00	GHOWCM 20%g 50%o 15%w 15%m	1.80
120.00	GOCM 5%g 15%o 80%m	1.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

18-16s-13w Barton Ks
Bitter C # 11
Job Ticket: 67916 **DST#: 2**
Test Start: 2022.04.07 @ 12:31:18

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:43:03

Time Test Ended: 21:02:33

Interval: **3313.00 ft (KB) To 3377.00 ft (KB) (TVD)**

Total Depth: **3377.00 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: 1936.00 ft (KB)

1931.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3314.00 ft (KB)

Start Date: 2022.04.07 End Date: 2022.04.07

Start Time: 12:31:56 End Time: 21:03:05

Capacity: 8000.00 psig

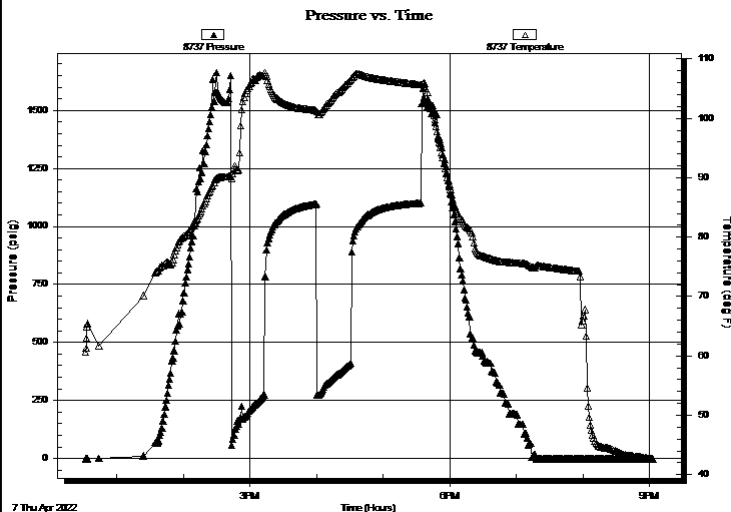
Last Calib.: 2022.04.07

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 4 mins. Built to 69.84". (30)
IS: Weak Blow . Surface to 1/8". (45)
FF: Strong Blow . B.O.B. in 6 mins. Built to 63.10". (30)
FS: Weak Blow . Built to Surface. (60)

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GOWCM 20%g 25%o 25%w 30%m	0.44
58.00	GOMCW 15%g 45%o 5%m 35%w	0.44
320.00	GHOWCM 45%g 35%o 10%w 10%m	4.49
256.00	GHOMCW 43%g 40%o 2%m 15%w	3.59
128.00	GHOWCM 20%g 50%o 15%w 15%m	1.80
120.00	GOCM 5%g 15%o 80%m	1.68

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

18-16s-13w Barton Ks

125 N Market St #1425
Wichita, Ks. 67202

Bitter C # 11

Job Ticket: 67916

DST#: 2

ATTN: Roger Martin

Test Start: 2022.04.07 @ 12:31:18

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:

6500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	GOWCM 20%g 25%o 25%w 30%m	0.442
58.00	GOMCW 15%g 45%o 5%m 35%w	0.442
320.00	GHOWCM 45%g 35%o 10%w 10%m	4.489
256.00	GHOMCW 43%g 40%o 2%m 15%w	3.591
128.00	GHOWCM 20%g 50%o 15%w 15%m	1.796
120.00	GOCM 5%g 15%o 80%m	1.683
0.00	192' GIP 100%g	0.000
0.00	TS 15%g 30%o 55%m	0.000

Total Length: 940.00 ft Total Volume: 12.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

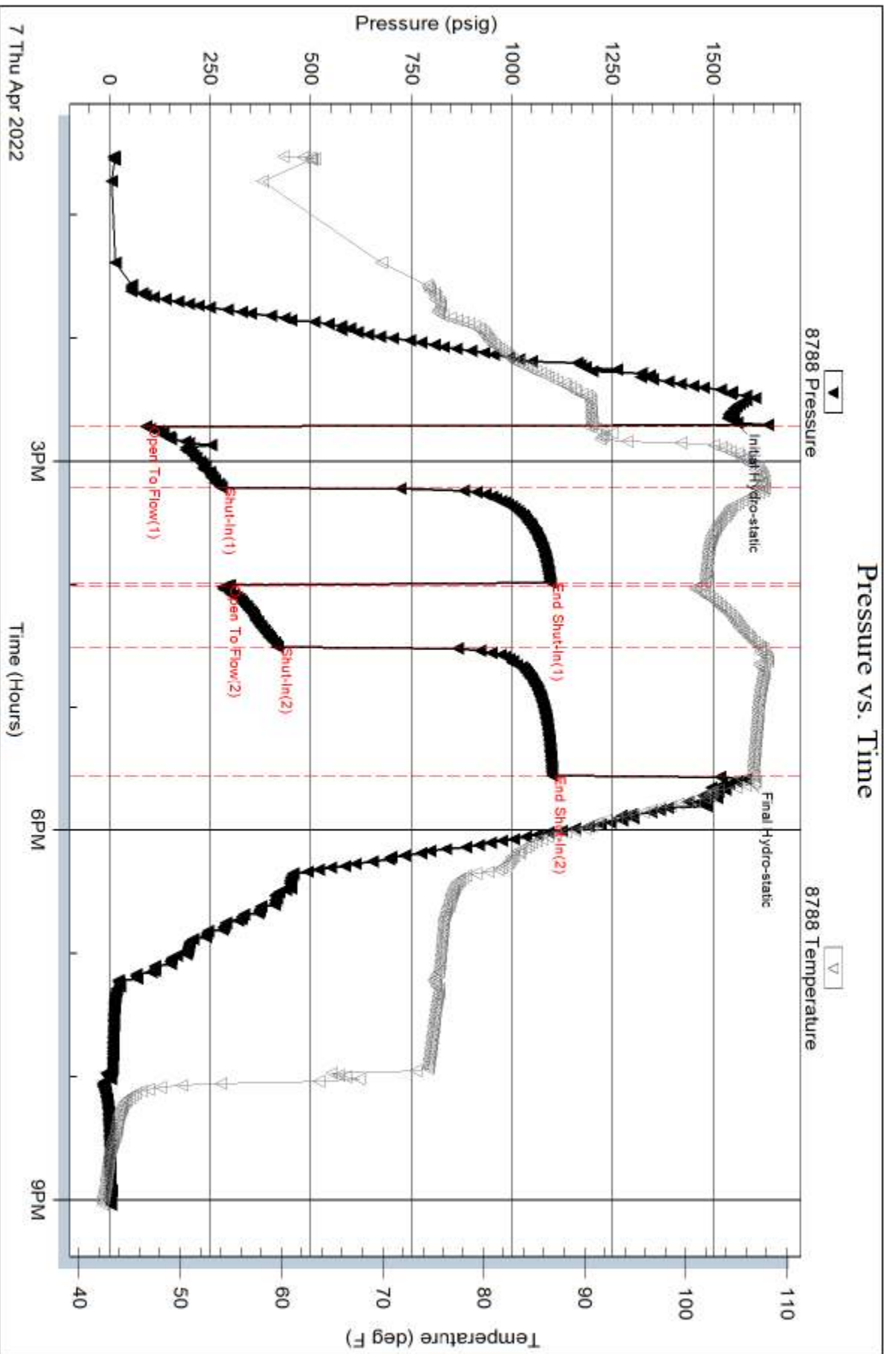
Laboratory Name:

Laboratory Location:

Recovery Comments: 192 Feet of Gas in Pipe.

TS 15g 30o 55m

Couldn't get Chlorides w ith out contamination of sample

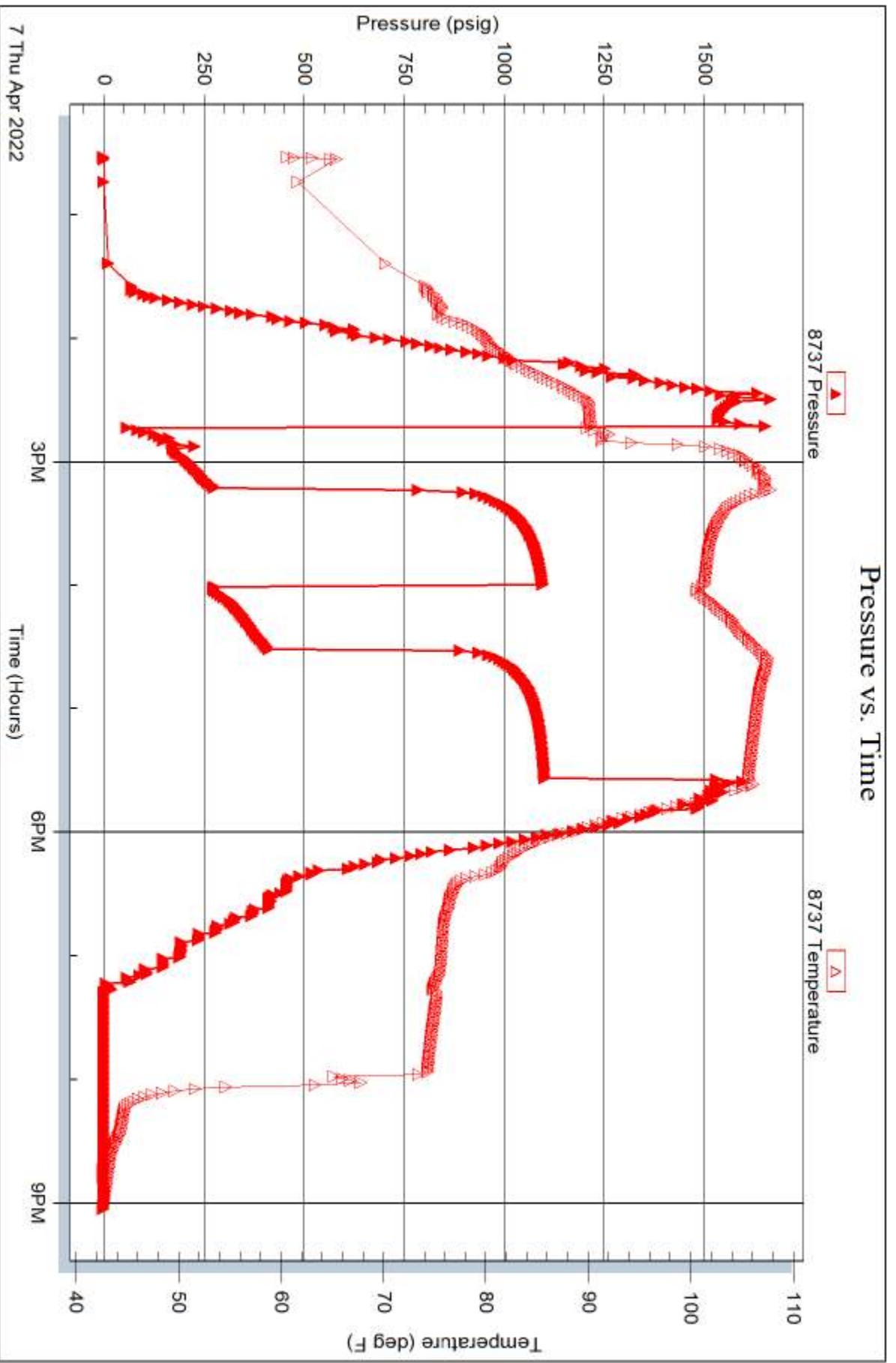


Serial #: 8737

Outside Darrah Oil Company

Bitter C# 11

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67916

Printed: 2022.04.07 @ 22:36:00

COPELAND

Acid & Cement

BURRTON, KS GREAT BEND, KS
(620) 463-5161 (620) 793-3366
FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
HAYSVILLE, KS 67060
(316) 524-1225
(316) 524-1027 FAX

Invoice

INVOICE NUMBER:
C60545-IN

BILL TO:

DARRAH OIL COMPANY LLC
PO BOX 2786
WICHITA, KS 67202-2786

LEASE: BITTER C-11

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS		
04/13/2022	60545		04/08/2022	BITTER C-11	NET 30		
QUANTITY	U/M	ITEM NO./DESCRIPTION			D/C	PRICE	EXTENSION
		NEW WELL					
30.00	MI	MILEAGE PICKUP			0.00	4.00	120.00
30.00	MI	MILEAGE CEMENT PUMP TRUCK			0.00	6.00	180.00
1.00	EA	PUMP CHARGE LONG STRING			0.00	1,650.00	1,650.00
205.00	SK	60/40 POZ MIX 2% GEL			0.00	13.25	2,716.25
150.00	EACH	DEFOAMER C41-P			0.00	4.75	712.50
50.00	LB	FLUID LOSS C-12			0.00	7.00	350.00
150.00	LB	FRICTION REDUCER C-37			0.00	5.00	750.00
1,050.00	LB	FINE SALT			0.00	0.75	787.50
875.00	LB	GILSONITE			0.00	1.50	1,312.50
500.00	GAL	MUD FLUSH			0.00	1.00	500.00
5.00	EA	5 1/2" TURBO CENTRALIZER			0.00	85.00	425.00
1.00	EA	5 1/2" BASKET			0.00	155.00	155.00
1.00	EA	LATCH DOWN PLUG AND BAFFLE			0.00	175.00	175.00
1.00	EA	AUTO FILL ASSEMBLY			0.00	70.00	70.00

Continued

COPELAND

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

INVOICE NUMBER:
C60545-IN

BILL TO:
DARRAH OIL COMPANY LLC
PO BOX 2786
WICHITA, KS 67202-2786

LEASE: BITTER C-11

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
04/13/2022	60545		04/08/2022	BITTER C-11	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	EA	INSERT FLOAT SHOE		0.00	285.00	285.00
251.00	EA	BULK CHARGE		0.00	1.25	313.75
331.32	MI	BULK TRUCK - TON MILES		0.00	1.85	612.94
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		11,115.44
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		BATCO Sales Tax:		580.41
		NET 30 DAYS		Invoice Total:		11,695.85

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.

COPELAND

Acid & Cement



NEW WELL
 BOX 438 - HAYSVILLE, KANSAS 67060
 316-524-1225

FIELD ORDER N^o C _____ 60545

DATE 8-Apr 20 22

IS AUTHORIZED BY: DARRAH OIL (NAME OF CUSTOMER)

Address _____ City _____ State KS

TO TREAT WELL
 AS FOLLOWS Lease BITTER Well No. C-11 Customer Order No. _____

Sec. Twp. _____
 Range _____ County BARTON State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED
 BEFORE WORK IS COMMENCED _____ By _____
 Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0001	30	Mileage P.U.	\$4.00	\$120.00
20.0002	30	Mileage P.T.	\$6.00	\$180.00
20.0007	1	Pump Charge Long String	\$1,650.00	\$1,650.00
20.1002	205	60/40 Poz 2% Gel	\$13.25	\$2,716.25
20.1008	150	C-41P per lb. Defoamer	\$4.75	\$712.50
20.1009	50	C-12 per lb. Fluid Loss	\$7.00	\$350.00
20.101	150	C-37 per lb. Friction Reducer	\$5.00	\$750.00
20.1015	1050	Fine Salt per lb.	\$0.75	\$787.50
20.1016	875	Gilsonite per lb.	\$1.50	\$1,312.50
20.1018	500	Mud Flush per gal	\$1.00	\$500.00
20.2002	5	5 1/2" Turbo-Centralizer	\$85.00	\$425.00
20.2006	1	5 1/2" Basket	\$155.00	\$155.00
20.2009	1	Latch Down Plug & Baffle	\$175.00	\$175.00
20.2011	1	Auto Fill Assembly	\$70.00	\$70.00
20.2012	1	Insert Float Shoe	\$285.00	\$285.00
20.0011	251	Bulk Charge	\$1.25	\$313.75
20.0012	331.32	Bulk Truck Miles	\$1.85	\$612.94
		Process License Fee on Gallons		
TOTAL BILLING				\$11,115.44

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative GREG C.

Station GB COOPER S.
 Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



TREATMENT REPORT

Acid Stage No. _____

Date <u>4/8/2022</u> District <u>GB</u> F.O. No. <u>C60545</u> Company <u>DARRAH OIL</u> Well Name & No. <u>BITTER C-11</u> Location _____ Field _____ County <u>BARTON</u> State <u>KS</u> Casing: Size <u>5 1/2</u> Type & Wt. <u>14#</u> Set at <u>3376</u> ft. Formation: _____ Perf. _____ to _____ Formation: _____ Perf. _____ to _____ Formation: _____ Perf. _____ to _____ Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft. Cemented: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perforated from _____ ft. to _____ ft. Tubing: Size & Wt. _____ Swung at _____ ft. Perforated from _____ ft. to _____ ft. Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.	Type Treatment: _____ Amt. _____ Type Fluid _____ Sand Size _____ Pounds of Sand _____ Bkdown _____ Bbl./Gal. _____ _____ Bbl./Gal. _____ _____ Bbl./Gal. _____ _____ Bbl./Gal. _____ Flush _____ Bbl./Gal. _____ Treated from _____ ft. to _____ ft. No. ft. <u>0</u> from _____ ft. to _____ ft. No. ft. <u>0</u> from _____ ft. to _____ ft. No. ft. <u>0</u> Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal. Pump Trucks. No. Used: Std. <u>365</u> Sp. _____ Twin _____ Auxiliary Equipment <u>360-310T</u> Personnel <u>GREG CLARENCE JOE</u> Auxiliary Tools _____ Plugging or Sealing Materials: Type _____ Gals. _____ lb.
---	--

Company Representative COOPER S. Treater GREG C.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
2:30				ON LOCATION
				PIPE TALLY: 3376'
				INSERT: 3354.73'
				CENTRALIZERS ON TOP OF JTS. 1,3,5,7,9
				BASKET ON TOP OF JT. 1
				CIRCULATE FOR 1 HOUR
				PUMP 500 GALS MUD FLUSH
				PLUG RATHOLE WITH 30 SKS
				MIX 175 SKS 60/40 2% GEL 5#/SK GILSONITE, 6#/SK SALT, 3/4% C-37
				3/4% C-41P, 1/4% C-12
				PUMP LINE AND PUMP CLEAN. RELEASE PLUG
				DISPLACE WITH 81.8 BBLS.
6:45				PLUG LANDED AND HELD
7:00				JOB COMPLETE
				THANK YOU!!!

COPELAND

Acid & Cement

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

INVOICE NUMBER:
C60540-IN

BILL TO:
DARRAH OIL COMPANY LLC
PO BOX 2786
WICHITA, KS 67202-2786

LEASE: BITTER C-11

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
04/13/2022	60540		04/02/2022	BITTER C-11	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
30.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	6.00	180.00
1.00	EA	PUMP CHARGE SURFACE		0.00	1,150.00	1,150.00
375.00	SK	COMMON CEMENT		0.00	16.25	6,093.75
29.00	SK	CALCIUM CHLORIDE		0.00	42.00	1,218.00
404.00	EA	BULK CHARGE		0.00	1.25	505.00
569.64	MI	BULK TRUCK - TON MILES		0.00	1.85	1,053.83
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		10,200.58
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		BATCO Sales Tax:		765.04
		NET 30 DAYS		Invoice Total:		10,965.62

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.



FIELD ORDER N° C 60540

BOX 438 - HAYSVILLE, KANSAS 67060
316-524-1225

DATE 2-Apr 20 22

IS AUTHORIZED BY: DARRAH OIL (NAME OF CUSTOMER)

Address _____ City _____ State KS

TO TREAT WELL AS FOLLOWS Lease BITTER Well No. C - 11 Customer Order No. _____

Sec. Twp. _____ Range _____ County BARTON State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0002	30	Mileage P.T.	\$6.00	\$180.00
20.0005	1	Pump Charge Surface	\$1,150.00	\$1,150.00
20.1001	375	Common Cement Sack	\$16.25	\$6,093.75
20.1012	29	Calcium Chloride per 50 lb.	\$42.00	\$1,218.00
20.0011	404	Bulk Charge	\$1.25	\$505.00
20.0012	569.64	Bulk Truck Miles	\$1.85	\$1,053.83
		Process License Fee on Gallons		
TOTAL BILLING				\$10,200.58

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

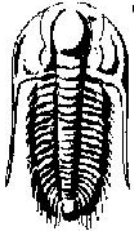
Copeland Representative GREG C.

Station GB

BO D.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-16s-13w Barton Ks
Bitter C # 11
 Job Ticket: 67915 **DST#: 1**
 Test Start: 2022.04.06 @ 22:38:17

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:43:47
 Time Test Ended: 05:51:17
 Interval: **3313.00 ft (KB) To 3373.00 ft (KB) (TVD)**
 Total Depth: 3373.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1936.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 5.00 ft

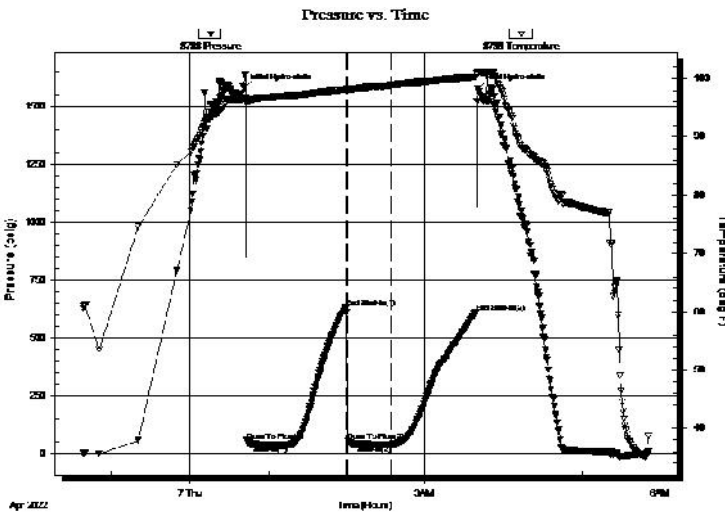
Serial #: 8788

Inside

Press@RunDepth: 39.79 psig @ 3314.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.06 End Date: 2022.04.07 Last Calib.: 2022.04.07
 Start Time: 22:38:22 End Time: 05:51:16 Time On Btm: 2022.04.07 @ 00:41:17
 Time Off Btm: 2022.04.07 @ 03:40:32

TEST COMMENT: IF: Weak Blow . Built to 2". (30)
 IS: No Blow . (45)
 FF: Weak Blow . Built to 1.03". (30)
 FS: No Blow . (60)

PRESSURE SUMMARY



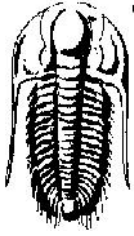
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.87	96.60	Initial Hydro-static
3	53.81	96.22	Open To Flow (1)
34	37.32	97.02	Shut-In(1)
79	632.24	98.18	End Shut-In(1)
80	56.16	98.31	Open To Flow (2)
114	39.79	98.92	Shut-In(2)
178	612.12	100.38	End Shut-In(2)
180	1576.36	101.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
13.00	GOCM 1%g 24%o 75%m	0.10
2.00	CO 100%o	0.02
0.00	75' GIP 100%g	0.00
0.00	TS GOCM 2%g 18%o 80%m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company

18-16s-13w Barton Ks

125 N Market St #1425
Wichita, Ks. 67202

Bitter C # 11

Job Ticket: 67915

DST#: 1

ATTN: Roger Martin

Test Start: 2022.04.06 @ 22:38:17

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:

4000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
13.00	GOCM 1%g 24%o 75%m	0.099
2.00	CO 100%o	0.015
0.00	75' GIP 100%g	0.000
0.00	TS GOCM 2%g 18%o 80%m	0.000

Total Length: 15.00 ft Total Volume: 0.114 bbl

Num Fluid Samples: 0

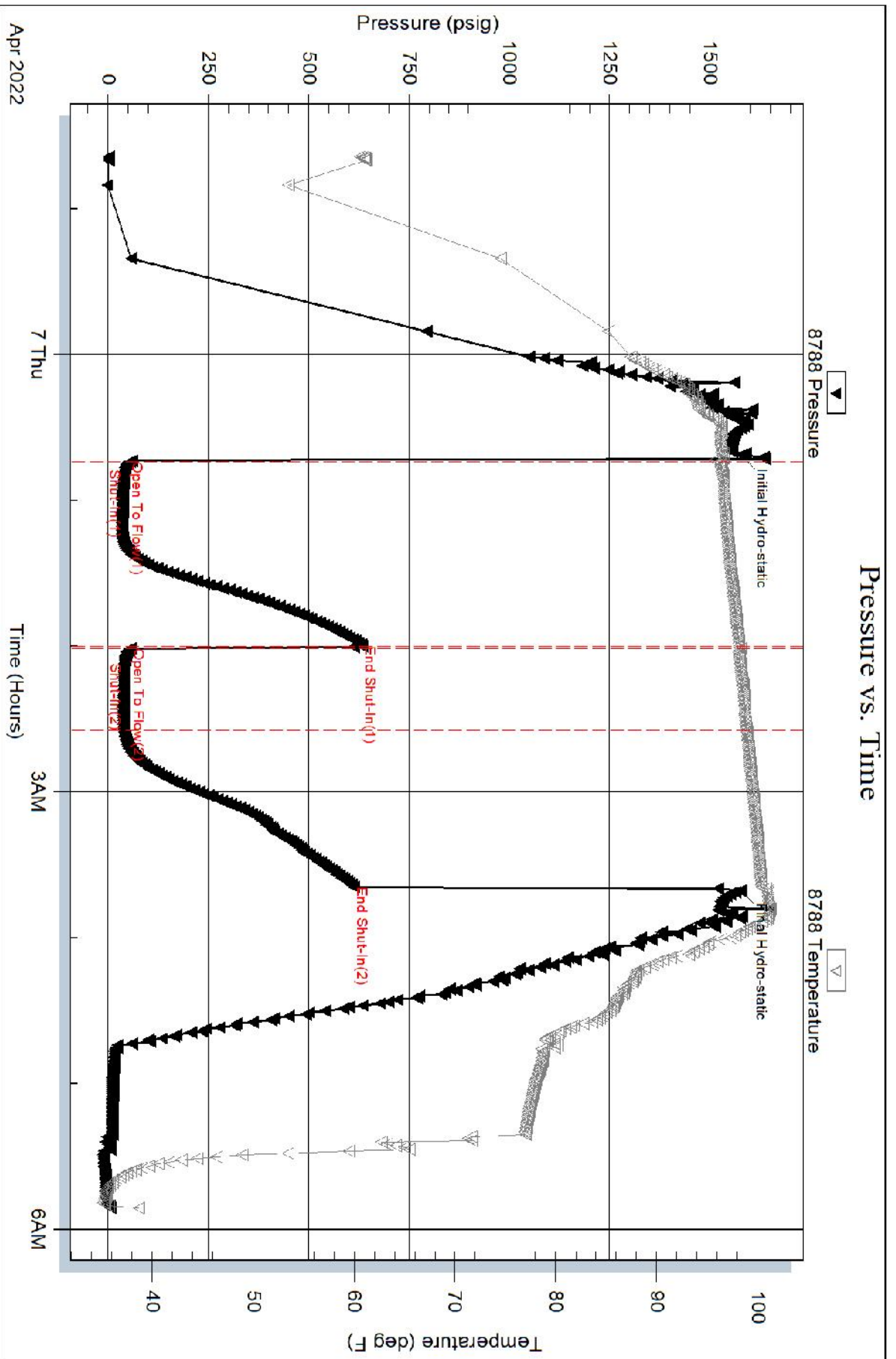
Num Gas Bombs: 0

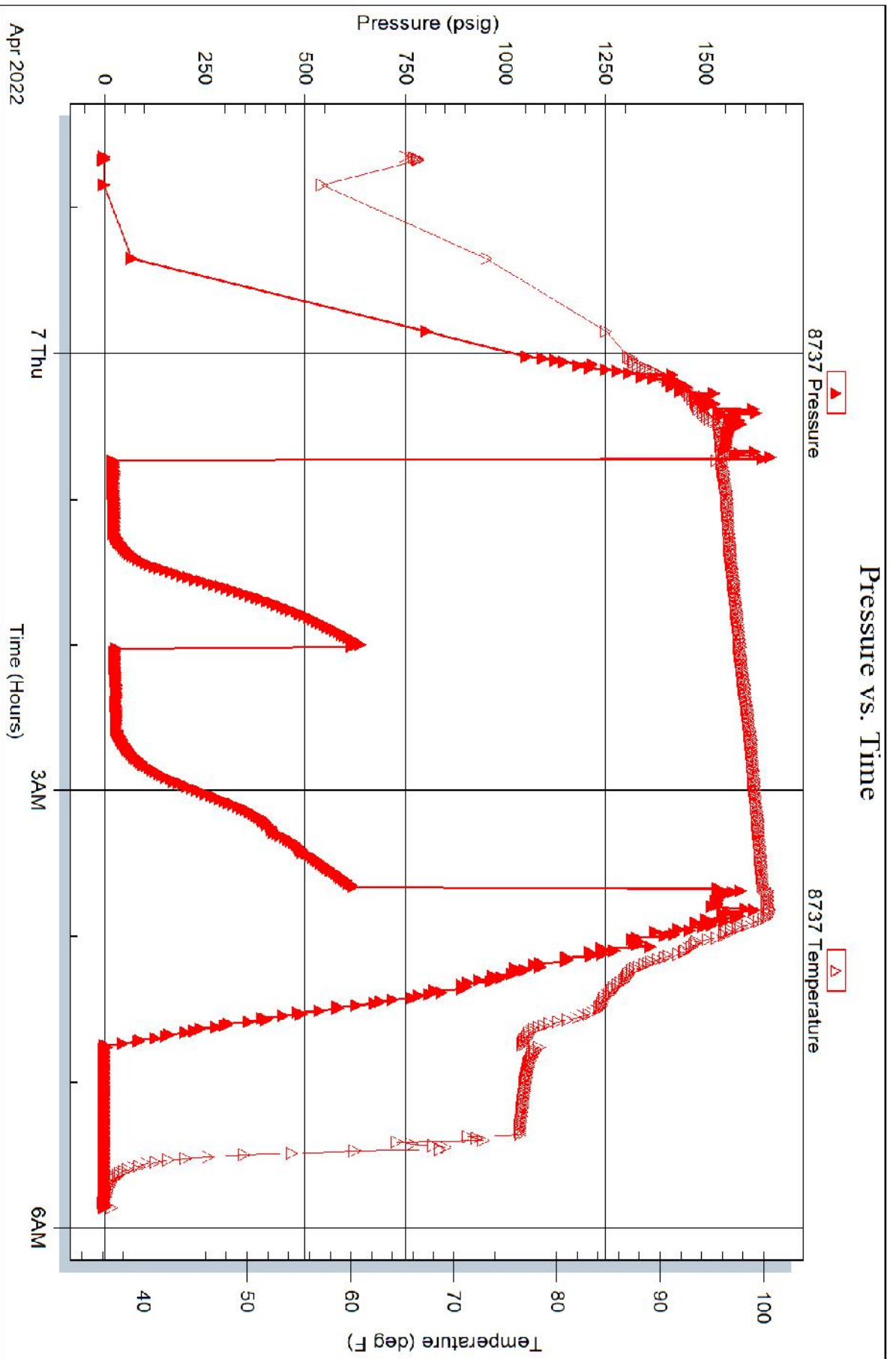
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool Sample GOCM 2 gas 18 oil 80 mud
75 Feet of Gas in Pipe.







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

18-16s-13w Barton Ks
Bitter C # 11
 Job Ticket: 67916 **DST#: 2**
 Test Start: 2022.04.07 @ 12:31:18

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:03
 Time Test Ended: 21:02:33
 Interval: **3313.00 ft (KB) To 3377.00 ft (KB) (TVD)**
 Total Depth: 3377.00 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: 1936.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 5.00 ft

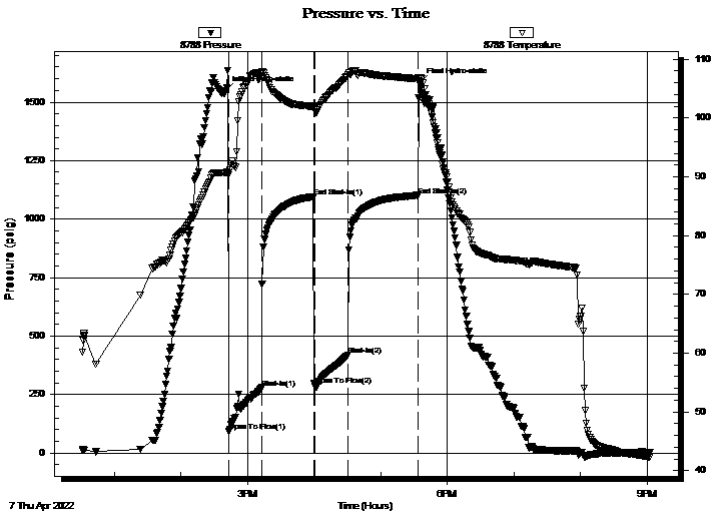
Serial #: 8788

Inside

Press@RunDepth: 419.49 psig @ 3314.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.07 End Date: 2022.04.07 Last Calib.: 2022.04.07
 Start Time: 12:31:23 End Time: 21:02:32 Time On Btm: 2022.04.07 @ 14:40:03
 Time Off Btm: 2022.04.07 @ 17:35:03

TEST COMMENT: IF: Strong Blow . B.O.B. in 4 mins. Built to 69.84". (30)
 IS: Weak Blow . Surface to 1/8". (45)
 FF: Strong Blow . B.O.B. in 6 mins. Built to 63.10". (30)
 FS: Weak Blow . Built to Surface. (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.62	90.73	Initial Hydro-static
3	91.86	90.32	Open To Flow (1)
33	278.96	107.53	Shut-In(1)
80	1095.99	101.94	End Shut-In(1)
81	292.31	101.45	Open To Flow (2)
111	419.49	107.39	Shut-In(2)
174	1101.12	106.64	End Shut-In(2)
175	1581.57	105.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GOWCM 20%g 25%o 25%w 30%m	0.44
58.00	GOMCW 15%g 45%o 5%m 35%w	0.44
320.00	GHOWCM 45%g 35%o 10%w 10%m	4.49
256.00	GHOMCW 43%g 40%o 2%m 15%w	3.59
128.00	GHOWCM 20%g 50%o 15%w 15%m	1.80
120.00	GOCM 5%g 15%o 80%m	1.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah Oil Company

18-16s-13w Barton Ks

125 N Market St #1425
Wichita, Ks. 67202

Bitter C # 11

Job Ticket: 67916

DST#: 2

ATTN: Roger Martin

Test Start: 2022.04.07 @ 12:31:18

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:43:03

Time Test Ended: 21:02:33

Interval: 3313.00 ft (KB) To 3377.00 ft (KB) (TVD)

Total Depth: 3377.00 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: 1936.00 ft (KB)

1931.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 3314.00 ft (KB)

Start Date: 2022.04.07 End Date: 2022.04.07

Start Time: 12:31:56 End Time: 21:03:05

Capacity: 8000.00 psig

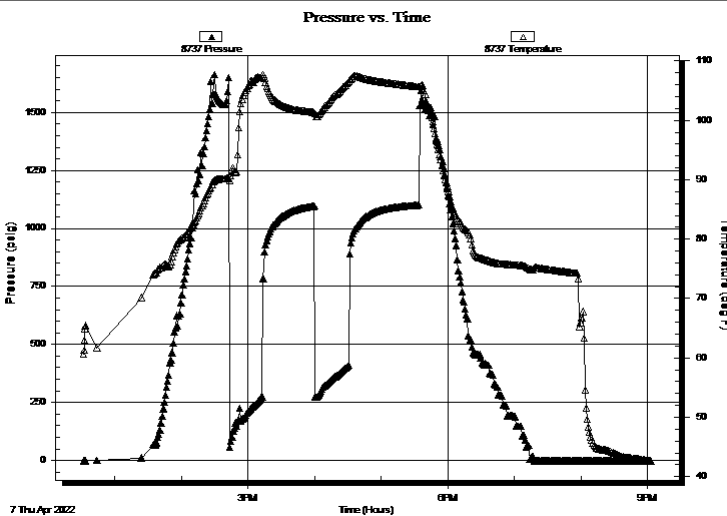
Last Calib.: 2022.04.07

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 4 mins. Built to 69.84". (30)
IS: Weak Blow . Surface to 1/8". (45)
FF: Strong Blow . B.O.B. in 6 mins. Built to 63.10". (30)
FS: Weak Blow . Built to Surface. (60)

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
58.00	GOWCM 20%g 25%o 25%w 30%m	0.44
58.00	GOMCW 15%g 45%o 5%m 35%w	0.44
320.00	GHOWCM 45%g 35%o 10%w 10%m	4.49
256.00	GHOMCW 43%g 40%o 2%m 15%w	3.59
128.00	GHOWCM 20%g 50%o 15%w 15%m	1.80
120.00	GOCM 5%g 15%o 80%m	1.68

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

18-16s-13w Barton Ks

125 N Market St #1425
Wichita, Ks. 67202

Bitter C # 11

Job Ticket: 67916

DST#: 2

ATTN: Roger Martin

Test Start: 2022.04.07 @ 12:31:18

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:

6500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	GOWCM 20%g 25%o 25%w 30%m	0.442
58.00	GOMCW 15%g 45%o 5%m 35%w	0.442
320.00	GHOWCM 45%g 35%o 10%w 10%m	4.489
256.00	GHOMCW 43%g 40%o 2%m 15%w	3.591
128.00	GHOWCM 20%g 50%o 15%w 15%m	1.796
120.00	GOCM 5%g 15%o 80%m	1.683
0.00	192' GIP 100%g	0.000
0.00	TS 15%g 30%o 55%m	0.000

Total Length: 940.00 ft Total Volume: 12.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

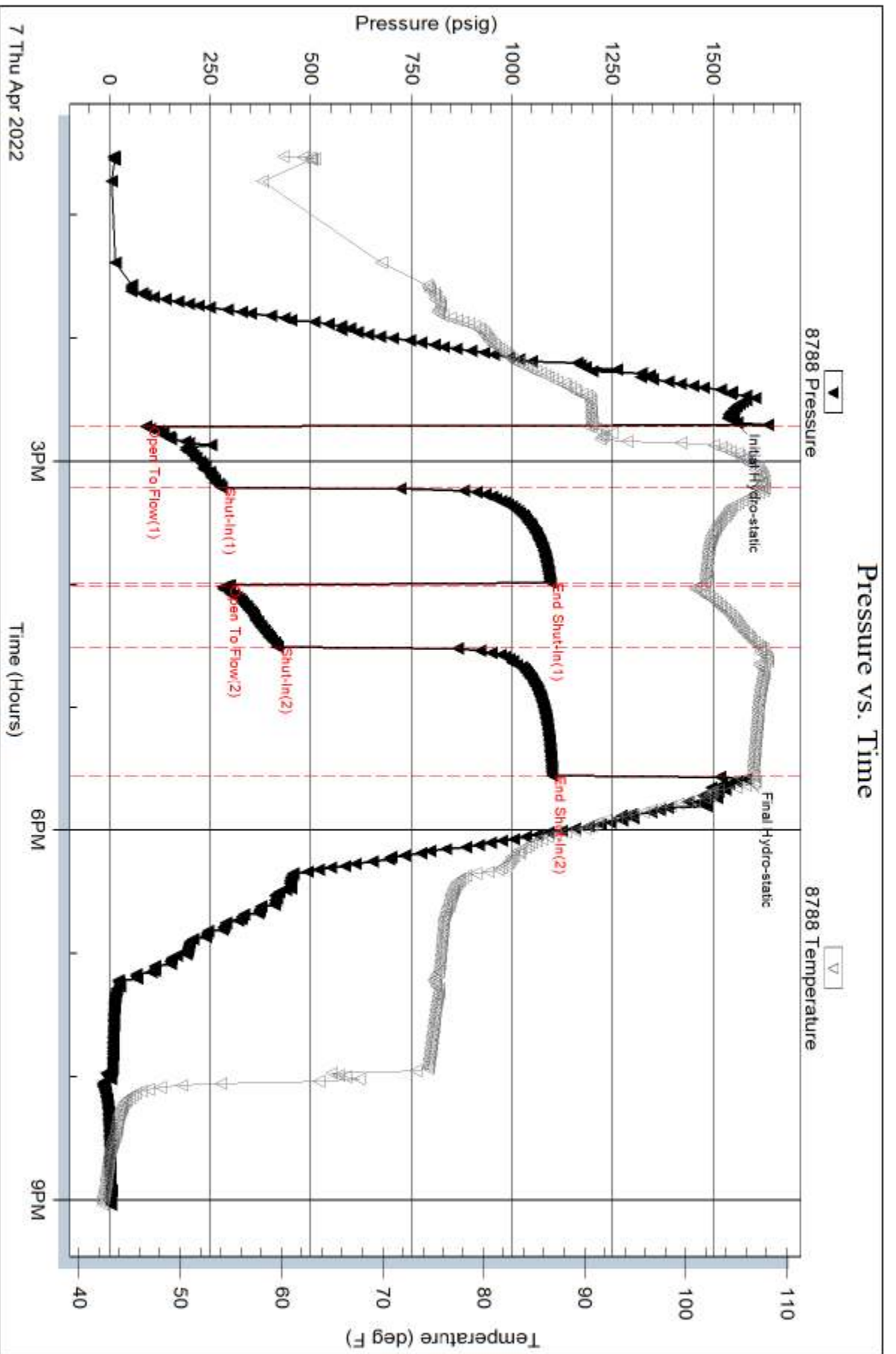
Laboratory Name:

Laboratory Location:

Recovery Comments: 192 Feet of Gas in Pipe.

TS 15g 30o 55m

Couldn't get Chlorides w ith out contamination of sample

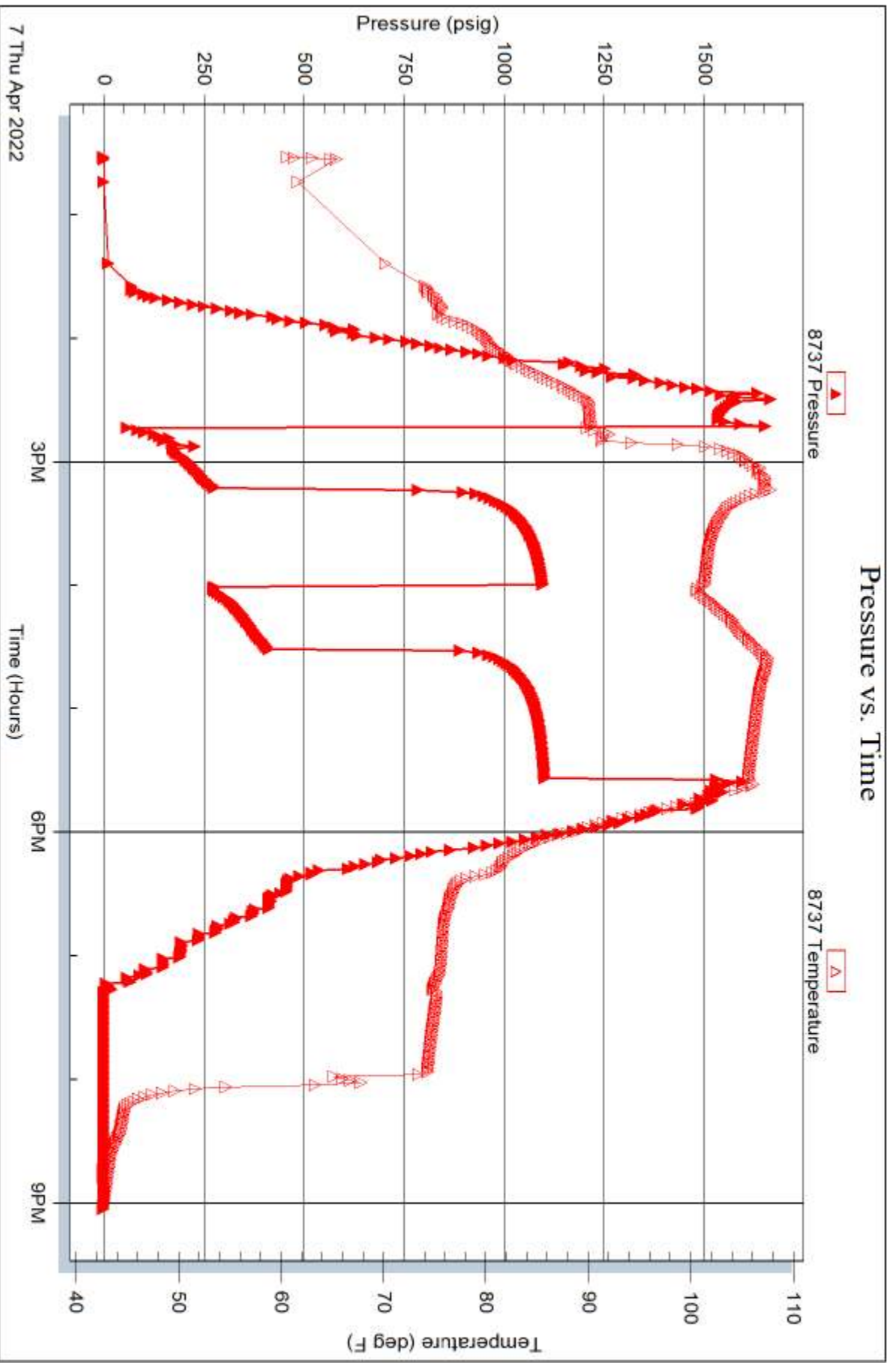


Serial #: 8737

Outside Darrah Oil Company

Bitter C# 11

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67916

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