

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	GAUNT 32B 2
Doc ID	1569957

All Electric Logs Run

Dual Induction
Porosity
Micro
Sonic



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company
125 N. Market Ste 1425
Wichita Ks 67202
ATTN: Saman Shuriffi

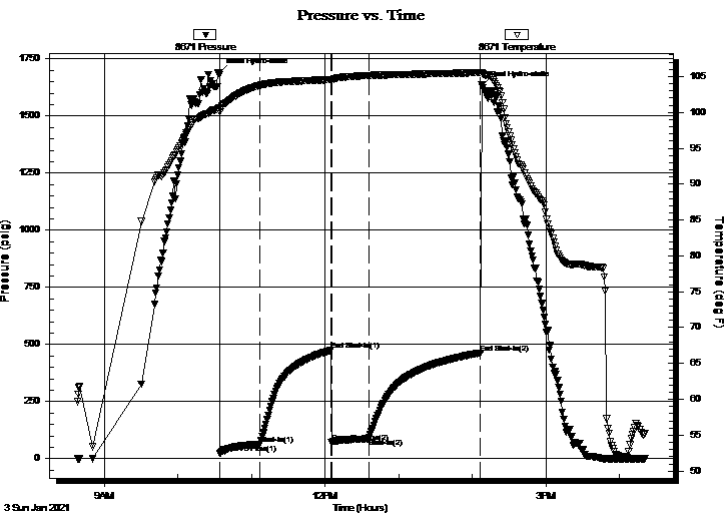
32 - 20S - 13W
Gaunt 32B - #2
Job Ticket: 47681 **DST#: 1**
Test Start: 2021.01.03 @ 08:38:00

GENERAL INFORMATION:

Formation: **H - J**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 10:34:15 Tester: Royal Fisher
Time Test Ended: 16:21:15 Unit No: #77
Interval: 3410.00 ft (KB) To 3470.00 ft (KB) (TVD) Reference Elevations: 1904.00 ft (KB)
Total Depth: 3470.00 ft (KB) (TVD) 1893.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8671 Outside
Press@RunDepth: 87.37 psig @ 3411.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.01.03 End Date: 2021.01.03 Last Calib.: 2021.01.03
Start Time: 08:38:05 End Time: 16:21:14 Time On Btm: 2021.01.03 @ 10:34:00
Time Off Btm: 2021.01.03 @ 14:07:45

TEST COMMENT: 30 - IF - Blow started out good and built to B.o.B. in 27 mins
60 - ISI - No Return
30 - FF - Blow started out good again and built to B.o.B. in 18 mins.
90 - FSI - Return Started 8 mins. in to and built up to 3/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.80	100.64	Initial Hydro-static
1	22.48	100.12	Open To Flow (1)
33	63.79	103.75	Shut-In(1)
91	474.07	104.57	End Shut-In(1)
92	70.31	104.47	Open To Flow (2)
122	87.37	105.15	Shut-In(2)
213	463.19	105.54	End Shut-In(2)
214	1635.29	105.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
188.00	OCWM - 25%o - 20%w - 55%m	0.92
0.00	54 - GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company
 125 N. Market Ste 1425
 Wichita Ks 67202
 ATTN: Saman Shuriffi

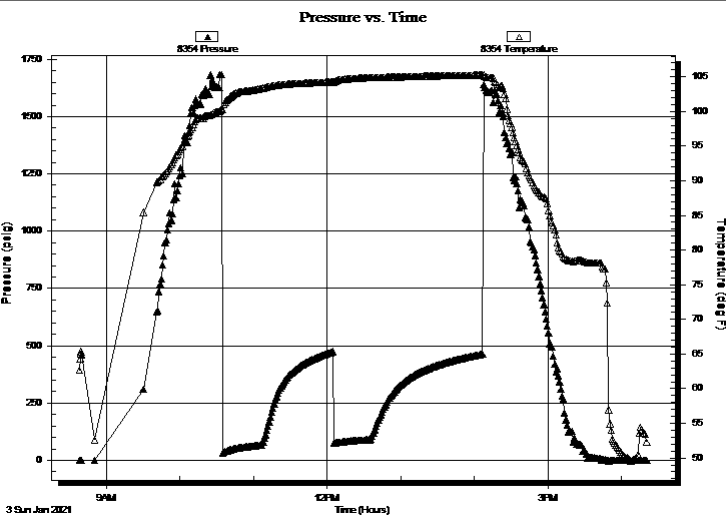
32 - 20S - 13W
Gaunt 32B - #2
 Job Ticket: 47681 **DST#: 1**
 Test Start: 2021.01.03 @ 08:38:00

GENERAL INFORMATION:

Formation: **H - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:34:15
 Time Test Ended: 16:21:15
Interval: 3410.00 ft (KB) To 3470.00 ft (KB) (TVD)
 Total Depth: 3470.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #77
 Reference Elevations: 1904.00 ft (KB)
 1893.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8354 Inside
 Press@RunDepth: psig @ 3411.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.01.03 End Date: 2021.01.03 Last Calib.: 2021.01.03
 Start Time: 08:38:05 End Time: 16:21:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Blow started out good and built to B.o.B. in 27 mins
 60 - ISI - No Return
 30 - FF - Blow started out good again and built to B.o.B. in 18 mins.
 90 - FSI - Return Started 8 mins. in to and built up to 3/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
188.00	OCWM - 25%o - 20%w - 55%m	0.92
0.00	54 - GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company

32 - 20S - 13W

125 N. Market Ste 1425
Wichita Ks 67202

Gaunt 32B - #2

Job Ticket: 47681

DST#: 1

ATTN: Saman Shuriffi

Test Start: 2021.01.03 @ 08:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
188.00	OCWM - 25%o - 20%w - 55%m	0.925
0.00	54 - GIP	0.000

Total Length: 188.00 ft Total Volume: 0.925 bbl

Num Fluid Samples: 0

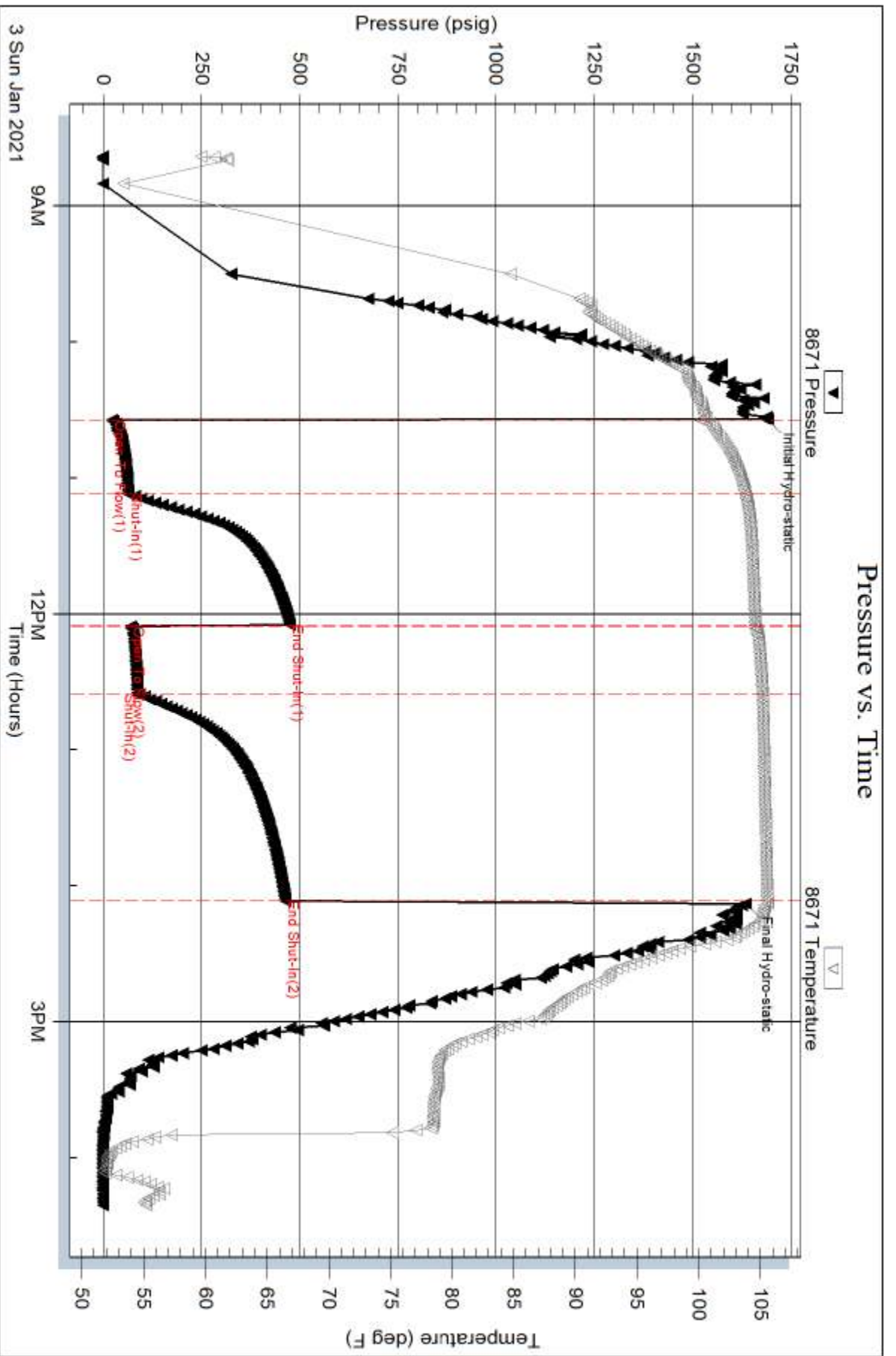
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



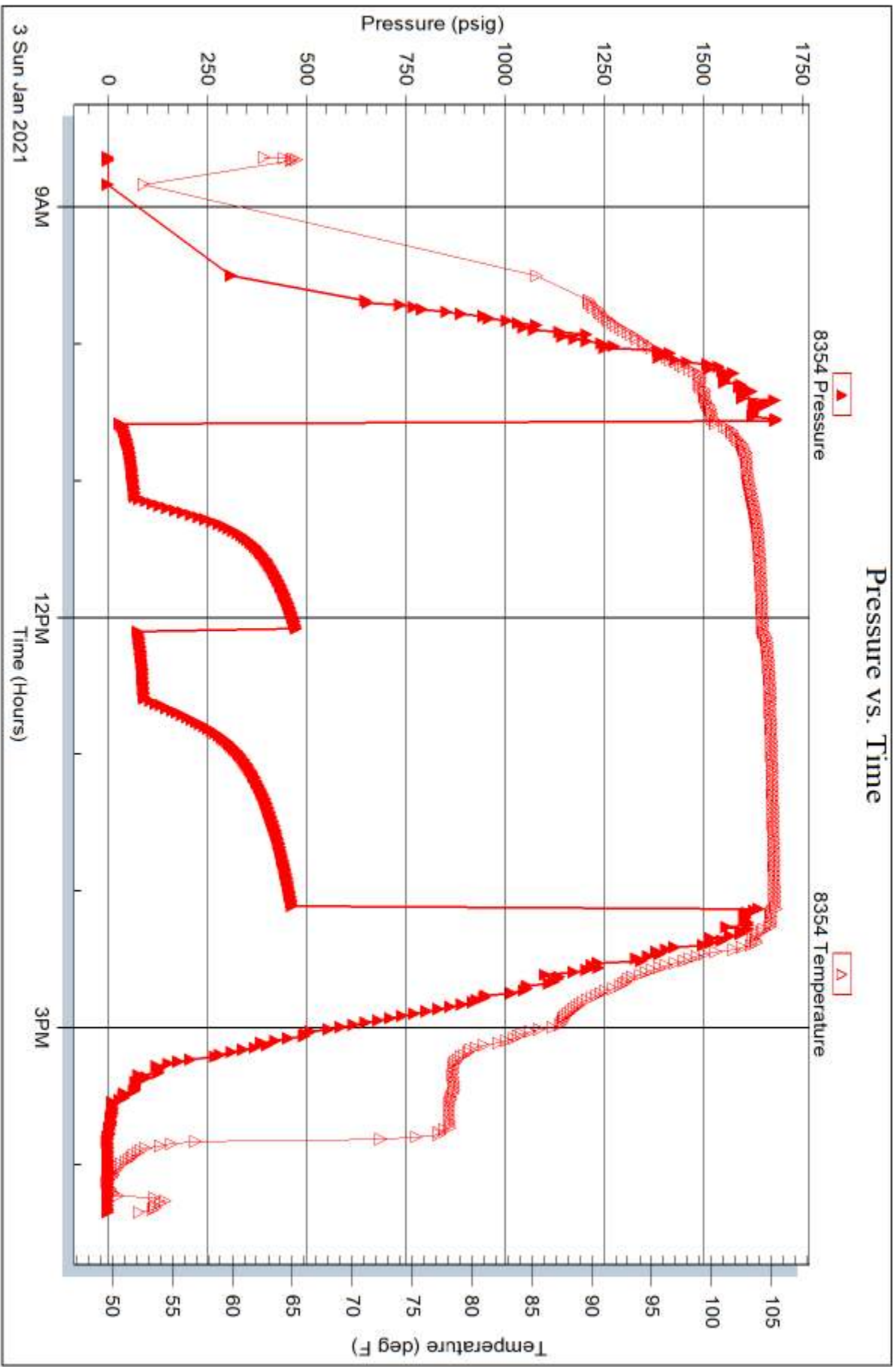
Serial #: 8354

Inside

Darrah Oil Company

Gaunt 32B - #2

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company
125 N. Market Ste 1425
Wichita Ks 67202
ATTN: Saman Shuriffi

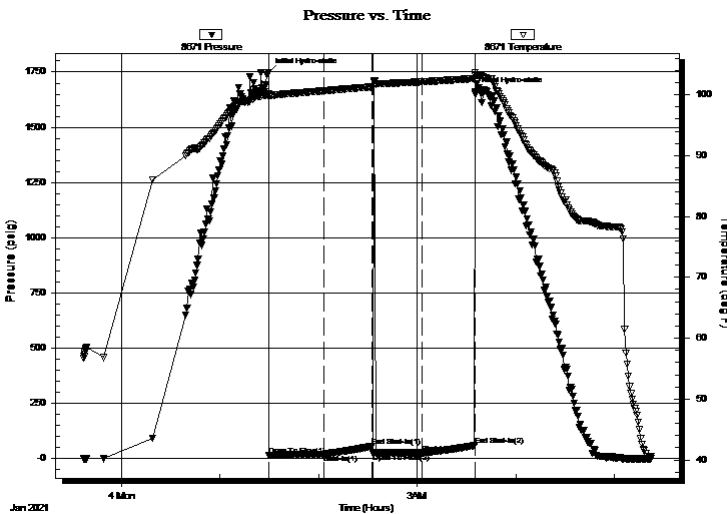
32 - 20S - 13W
Gaunt 32B - #2
Job Ticket: 47682 **DST#: 2**
Test Start: 2021.01.03 @ 23:37:00

GENERAL INFORMATION:

Formation: **LKC - K & L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:29:45
Time Test Ended: 05:22:15
Interval: **3468.00 ft (KB) To 4500.00 ft (KB) (TVD)**
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #77
Reference Elevations: 1904.00 ft (KB)
1893.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8671 Outside
Press@RunDepth: 26.43 psig @ 3469.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.01.03 End Date: 2021.01.04 Last Calib.: 2021.01.04
Start Time: 23:37:05 End Time: 05:22:14 Time On Btm: 2021.01.04 @ 01:29:30
Time Off Btm: 2021.01.04 @ 03:35:15

TEST COMMENT: 30 - IF - Blow started out at a 1/4" and then died to a faint blow
30 - ISI - No Return
30 - FF - Opened tool back up no blow flushed tool bubbled a couple times then died
30 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.84	100.12	Initial Hydro-static
1	15.71	99.59	Open To Flow (1)
34	20.60	100.63	Shut-In(1)
64	56.30	101.29	End Shut-In(1)
64	22.09	101.30	Open To Flow (2)
94	26.43	102.12	Shut-In(2)
126	60.12	102.64	End Shut-In(2)
126	1662.28	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company
125 N. Market Ste 1425
Wichita Ks 67202
ATTN: Saman Shuriffi

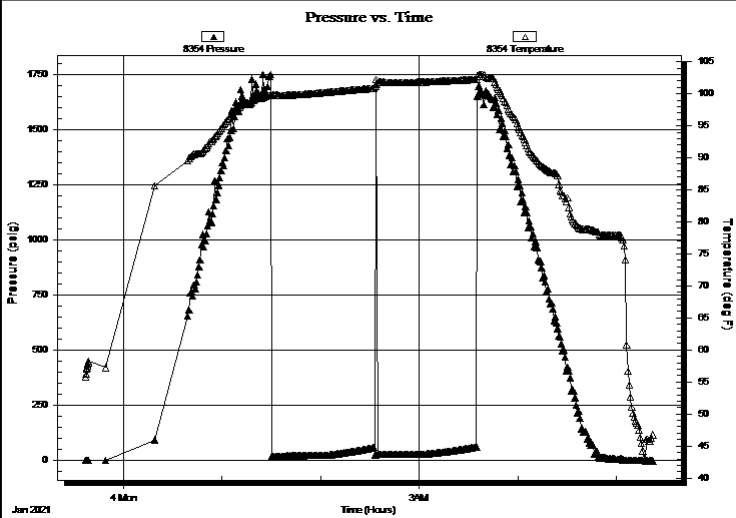
32 - 20S - 13W
Gaunt 32B - #2
Job Ticket: 47682 **DST#: 2**
Test Start: 2021.01.03 @ 23:37:00

GENERAL INFORMATION:

Formation: **LKC - K & L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:29:45
Time Test Ended: 05:22:15
Interval: **3468.00 ft (KB) To 4500.00 ft (KB) (TVD)**
Total Depth: 3500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #77
Reference Elevations: 1904.00 ft (KB)
1893.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: psig @ 3469.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.01.03 End Date: 2021.01.04 Last Calib.: 2021.01.04
Start Time: 23:37:05 End Time: 05:22:14 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF - Blow started out at a 1/4" and then died to a faint blow
30 - ISI - No Return
30 - FF - Opened tool back up no blow flushed tool bubbled a couple times then died
30 - FSI - No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud - 100% m	0.02

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company

32 - 20S - 13W

125 N. Market Ste 1425
Wichita Ks 67202

Gaunt 32B - #2

Job Ticket: 47682

DST#: 2

ATTN: Saman Shuriffi

Test Start: 2021.01.03 @ 23:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

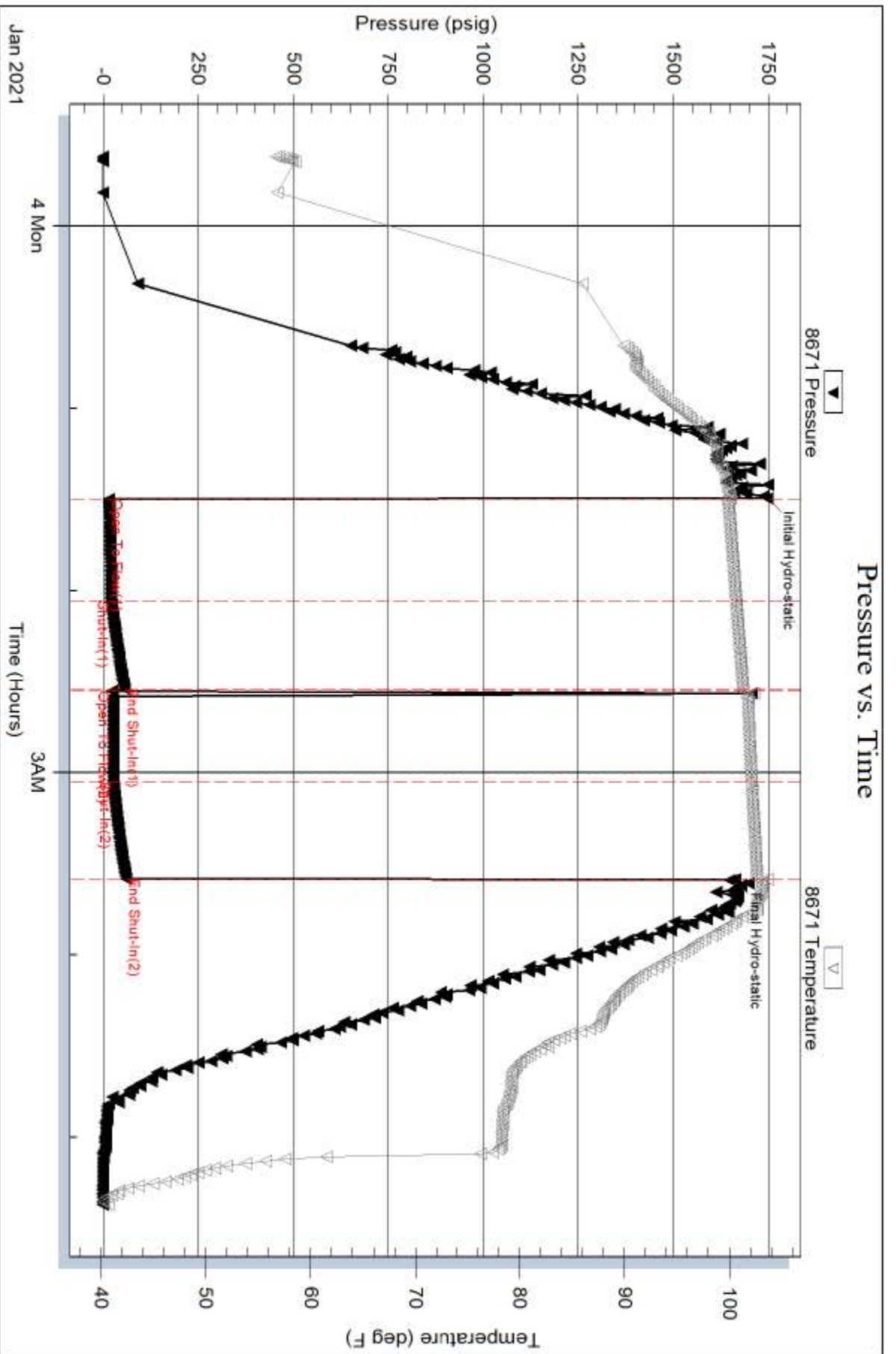
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



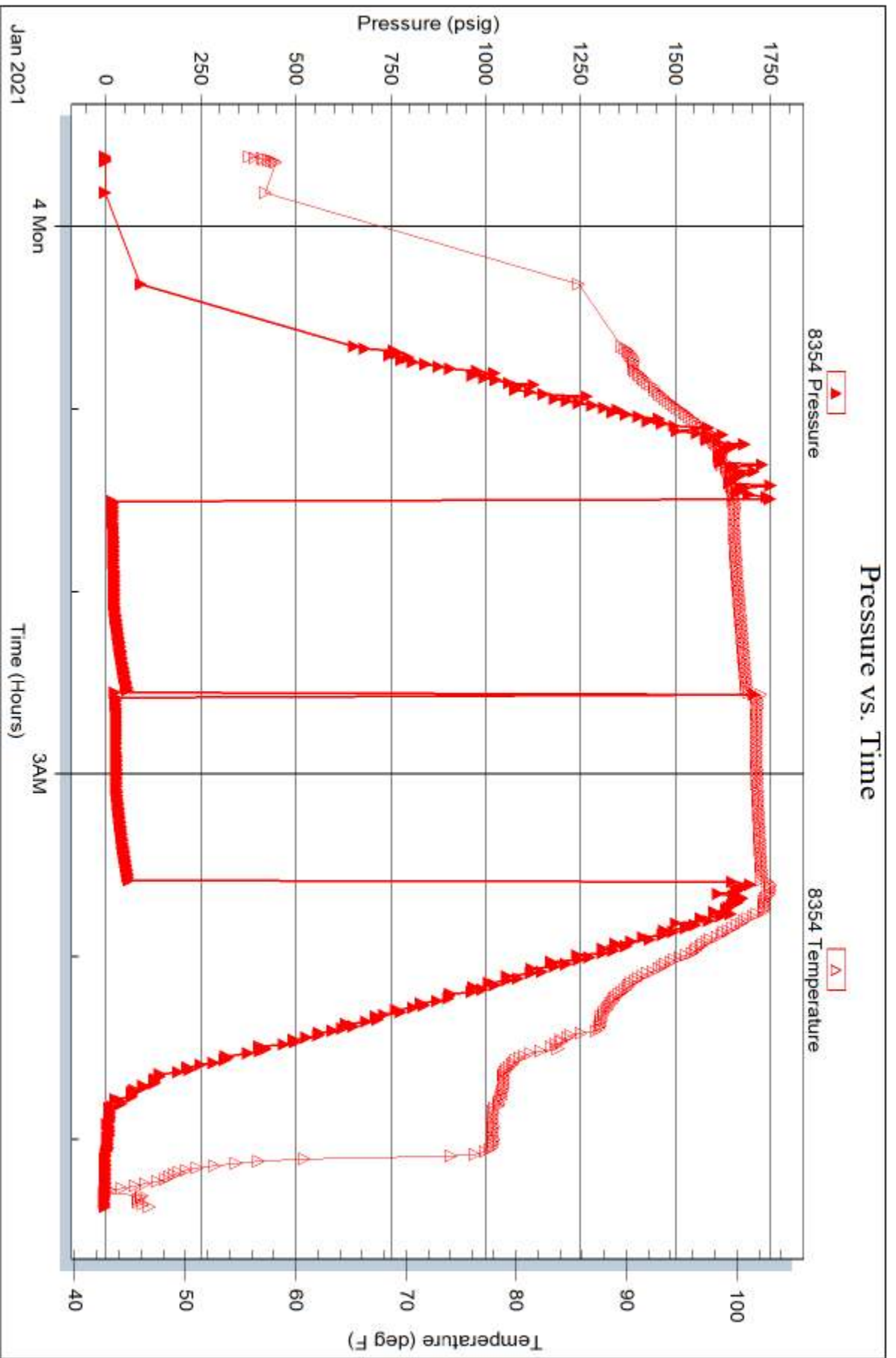
Serial #: 8354

Inside

Darrah Oil Company

Gaunt 32B - #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 47682

Printed: 2021.01.04 @ 07:32:12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company
 125 N. Market Ste 1425
 Wichita Ks 67202
 ATTN: Saman Shuriffi

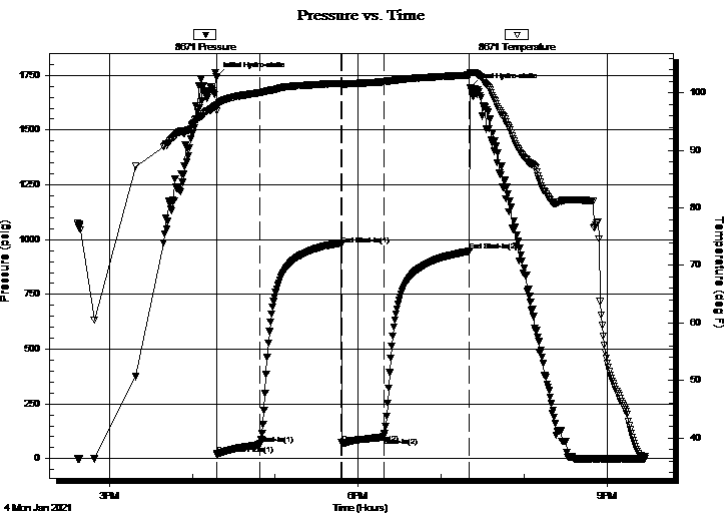
32 - 20S - 13W
Gaunt 32B - #2
 Job Ticket: 37683 **DST#: 3**
 Test Start: 2021.01.04 @ 14:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:17:45 Tester: Royal Fisher
 Time Test Ended: 21:27:15 Unit No: #77
 Interval: **3497.00 ft (KB) To 3570.00 ft (KB) (TVD)** Reference Elevations: 1904.00 ft (KB)
 Total Depth: 3570.00 ft (KB) (TVD) 1893.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8671 Outside
 Press@RunDepth: 99.32 psig @ 3498.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.01.04 End Date: 2021.01.04 Last Calib.: 2021.01.04
 Start Time: 14:37:05 End Time: 21:27:14 Time On Btm: 2021.01.04 @ 16:17:30
 Time Off Btm: 2021.01.04 @ 19:21:15

TEST COMMENT: 30 - IF - Started out w ith a weak blow and gradually built up to 5"
 60 - ISI - Faint return started 15 mins into but then died off
 30 - FF - Started out w ith a weak blow and slowly built up to 4"
 60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.25	97.74	Initial Hydro-static
1	20.32	96.84	Open To Flow (1)
32	63.55	100.01	Shut-In(1)
91	977.53	101.65	End Shut-In(1)
91	72.14	101.30	Open To Flow (2)
121	99.32	101.90	Shut-In(2)
183	946.69	103.07	End Shut-In(2)
184	1694.28	103.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOCM - 30%g - 20%o - 50%m	0.62
63.00	Free Oil - 100%o	0.31
0.00	53' - GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company
125 N. Market Ste 1425
Wichita Ks 67202
ATTN: Saman Shuriffi

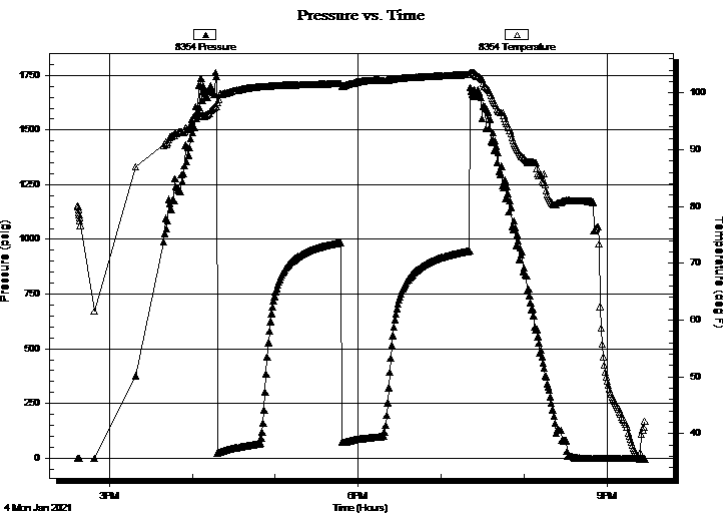
32 - 20S - 13W
Gaunt 32B - #2
Job Ticket: 37683 **DST#: 3**
Test Start: 2021.01.04 @ 14:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:17:45
Time Test Ended: 21:27:15
Interval: **3497.00 ft (KB) To 3570.00 ft (KB) (TVD)**
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #77
Reference Elevations: 1904.00 ft (KB)
1893.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: psig @ 3498.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.01.04 End Date: 2021.01.04 Last Calib.: 2021.01.04
Start Time: 14:37:05 End Time: 21:27:14 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF - Started out w ith a weak blow and gradually built up to 5"
60 - ISI - Faint return started 15 mins into but then died off
30 - FF - Started out w ith a weak blow and slowly built up to 4"
60 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOCM - 30%g - 20%o - 50%m	0.62
63.00	Free Oil - 100%o	0.31
0.00	53' - GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company

32 - 20S - 13W

125 N. Market Ste 1425
Wichita Ks 67202

Gaunt 32B - #2

Job Ticket: 37683

DST#: 3

ATTN: Saman Shuriffi

Test Start: 2021.01.04 @ 14:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	GOCM - 30%g - 20%o - 50%m	0.620
63.00	Free Oil - 100%o	0.310
0.00	53' - GIP	0.000

Total Length: 189.00 ft

Total Volume: 0.930 bbl

Num Fluid Samples: 0

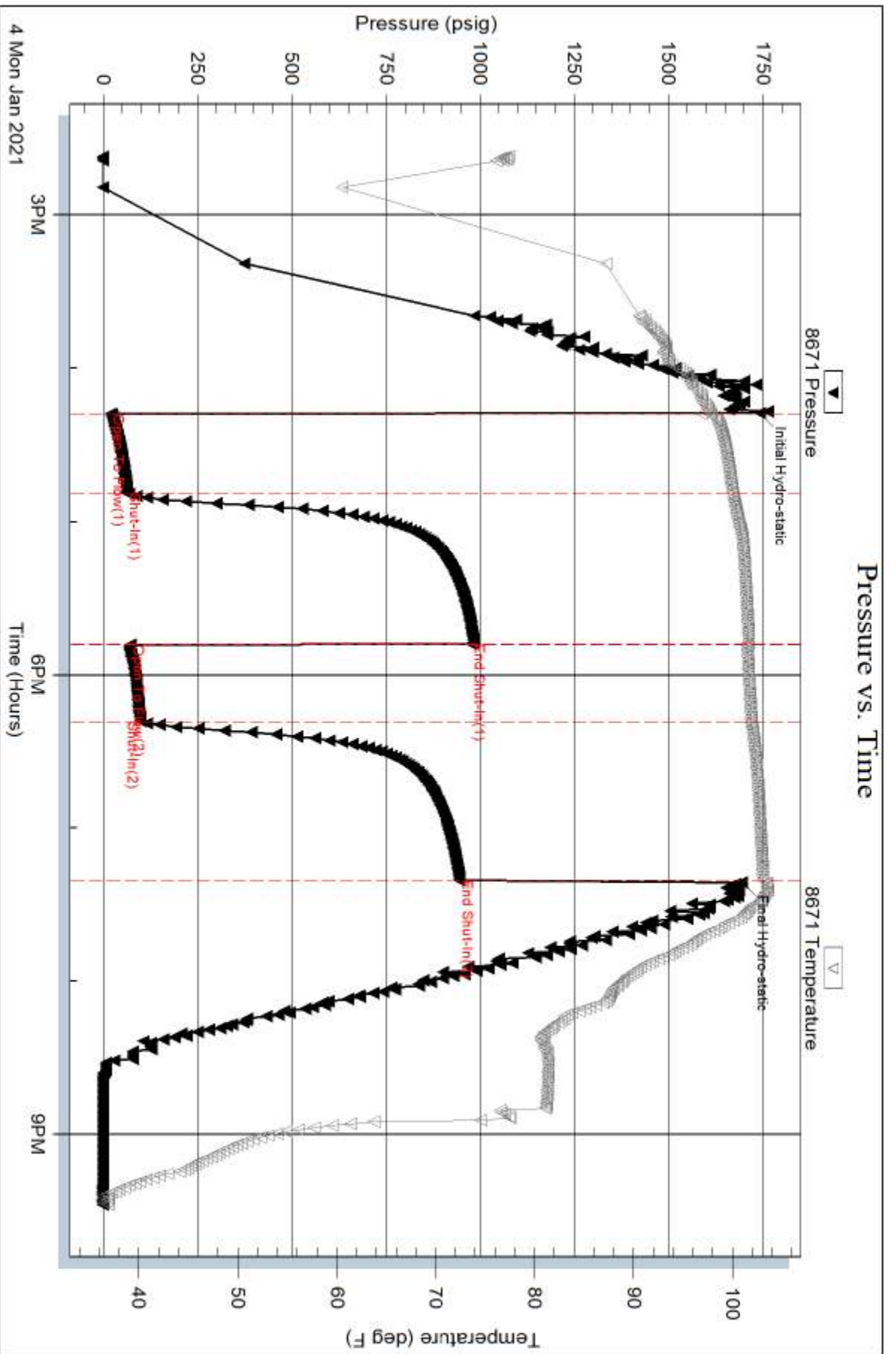
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



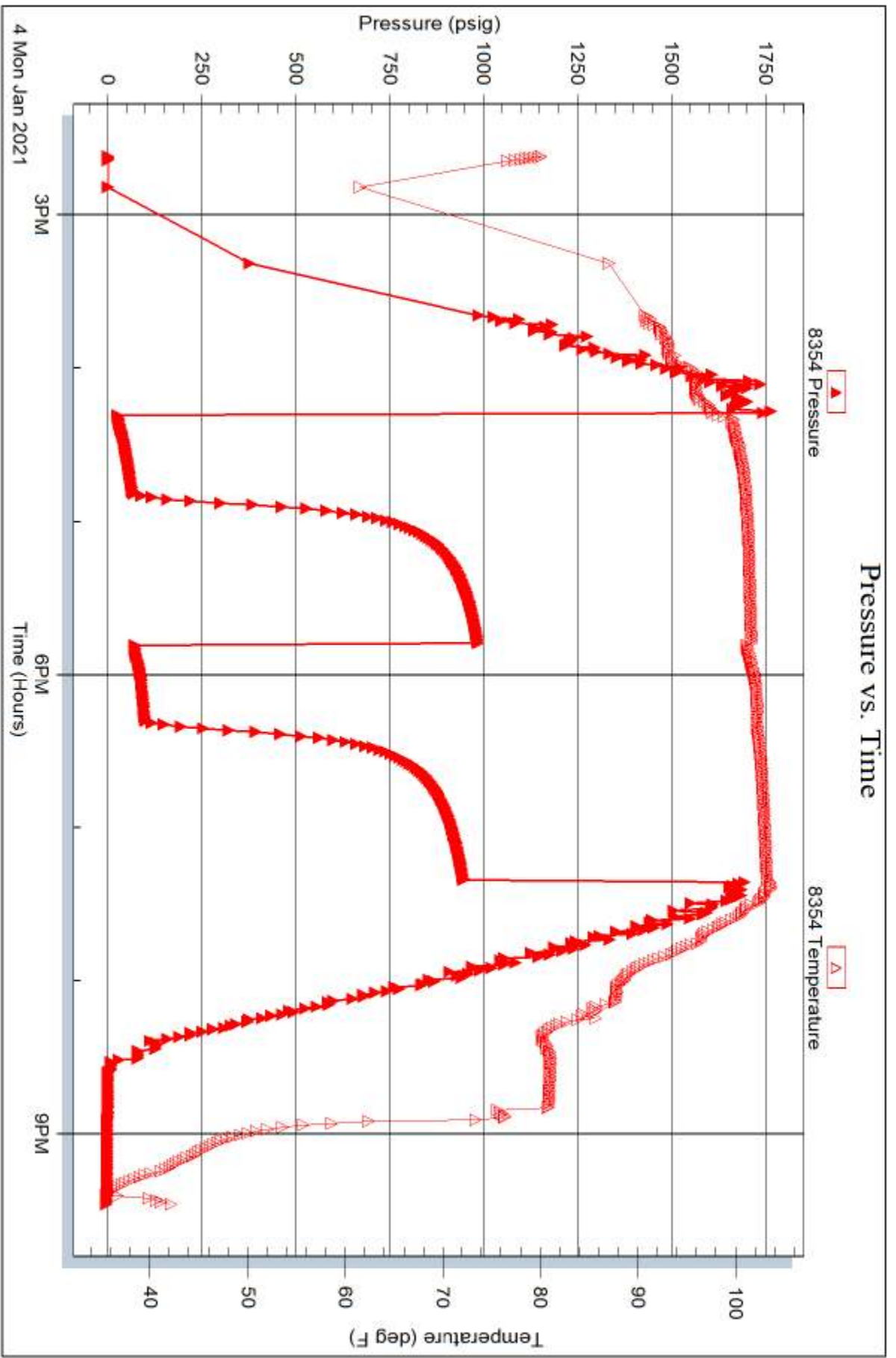
Serial #: 8354

Inside

Darrah Oil Company

Gaunt 32B - #2

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 37683

Printed: 2021.01.04 @ 22:37:38

Saman Sharfaie Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

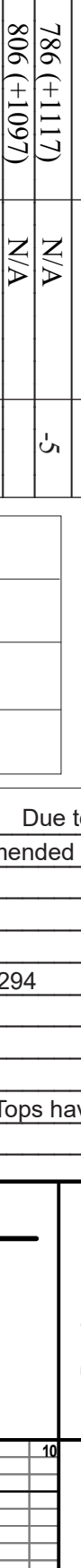
COMPANY Darragh Oil Company, LLC
LEASE Gault 32B #2
ELEVATIONS
KB 1903'

FIELD Hiss Southeast
LOCATION 460' ESL & 080' FEL
SEC 32 **TWSP** 20S **RGE** 13W
COUNTY Barton **STATE** Kansas
CONTRACTOR Murfin Drilling #20
SPUD 12/29/20 **COMP** 01/03/21
RTD 3/5/21 **LTD** 3/5/21
MUD UP 2700' TYPE MUD Chemical
SAMPLES SAVED FROM 3000' TO RTD
DRILLING TIME KEPT FROM 2800' TO RTD
SAMPLES EXAMINED FROM 3000' TO RTD

CONDUCTOR
SURFACE: 8'-5/8" at 875'
PRODUCTION: 5'-1/2" at 3500'

CASING
ELECTRICAL SURVEYS
CND: DLI: MEL
Midwest Wireline

FORMATION Sample Tops E-Log Tops
Athydrite 786 (+1177) N/A
Blaise Athydrite 806 (+1097) 3072 (-1769) -7
Oread 806 (+1097) 3168 (-1263) -10
Heebner 3168 (-1263) 3186 (-1283) -7
Toronto 3186 (-1283) 3283 (-1380) -6
Brown Lm 3283 (-1380) 3294 (-1391) -4
Lansing 3294 (-1391) 3498 (-1595) -1
BKC 3498 (-1595) 3506 (-1603) -1



REMARKS Due to poor to fair shows of oil in production 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 Sharfaie
Petroleum Geologist

*Tops have been adjusted to electric logs

Depth	Lithology	Geological Descriptions	Engineering Data
786 (+1177) - 806 (+1097)	Lithology	Anhydrite 786 (+1117)	
806 (+1097) - 3168 (-1263)	Lithology	Base 806 (+1097)	
3168 (-1263) - 3186 (-1283)	Lithology		
3186 (-1283) - 3283 (-1380)	Lithology		
3283 (-1380) - 3294 (-1391)	Lithology		
3294 (-1391) - 3498 (-1595)	Lithology		
3498 (-1595) - 3506 (-1603)	Lithology		
3506 (-1603) - 3603 (-1700)	Lithology	Oread 3072 (-1169)	
3603 (-1700) - 3700 (-1797)	Lithology		
3700 (-1797) - 3800 (-1894)	Lithology		
3800 (-1894) - 3900 (-1991)	Lithology		
3900 (-1991) - 4000 (-2088)	Lithology		
4000 (-2088) - 4100 (-2185)	Lithology		
4100 (-2185) - 4200 (-2282)	Lithology		
4200 (-2282) - 4300 (-2379)	Lithology		
4300 (-2379) - 4400 (-2476)	Lithology		
4400 (-2476) - 4500 (-2573)	Lithology		
4500 (-2573) - 4600 (-2670)	Lithology		
4600 (-2670) - 4700 (-2767)	Lithology		
4700 (-2767) - 4800 (-2864)	Lithology		
4800 (-2864) - 4900 (-2961)	Lithology		
4900 (-2961) - 5000 (-3058)	Lithology		
5000 (-3058) - 5100 (-3155)	Lithology		
5100 (-3155) - 5200 (-3252)	Lithology		
5200 (-3252) - 5300 (-3349)	Lithology		
5300 (-3349) - 5400 (-3446)	Lithology		
5400 (-3446) - 5500 (-3543)	Lithology		
5500 (-3543) - 5600 (-3640)	Lithology		
5600 (-3640) - 5700 (-3737)	Lithology		
5700 (-3737) - 5800 (-3834)	Lithology		
5800 (-3834) - 5900 (-3931)	Lithology		
5900 (-3931) - 6000 (-4028)	Lithology		
6000 (-4028) - 6100 (-4125)	Lithology		
6100 (-4125) - 6200 (-4222)	Lithology		
6200 (-4222) - 6300 (-4319)	Lithology		
6300 (-4319) - 6400 (-4416)	Lithology		
6400 (-4416) - 6500 (-4513)	Lithology		
6500 (-4513) - 6600 (-4610)	Lithology		
6600 (-4610) - 6700 (-4707)	Lithology		
6700 (-4707) - 6800 (-4804)	Lithology		
6800 (-4804) - 6900 (-4901)	Lithology		
6900 (-4901) - 7000 (-4998)	Lithology		
7000 (-4998) - 7100 (-5095)	Lithology		
7100 (-5095) - 7200 (-5192)	Lithology		
7200 (-5192) - 7300 (-5289)	Lithology		
7300 (-5289) - 7400 (-5386)	Lithology		
7400 (-5386) - 7500 (-5483)	Lithology		
7500 (-5483) - 7600 (-5580)	Lithology		
7600 (-5580) - 7700 (-5677)	Lithology		
7700 (-5677) - 7800 (-5774)	Lithology		
7800 (-5774) - 7900 (-5871)	Lithology		
7900 (-5871) - 8000 (-5968)	Lithology		
8000 (-5968) - 8100 (-6065)	Lithology		
8100 (-6065) - 8200 (-6162)	Lithology		
8200 (-6162) - 8300 (-6259)	Lithology		
8300 (-6259) - 8400 (-6356)	Lithology		
8400 (-6356) - 8500 (-6453)	Lithology		
8500 (-6453) - 8600 (-6550)	Lithology		
8600 (-6550) - 8700 (-6647)	Lithology		
8700 (-6647) - 8800 (-6744)	Lithology		
8800 (-6744) - 8900 (-6841)	Lithology		
8900 (-6841) - 9000 (-6938)	Lithology		
9000 (-6938) - 9100 (-7035)	Lithology		
9100 (-7035) - 9200 (-7132)	Lithology		
9200 (-7132) - 9300 (-7229)	Lithology		
9300 (-7229) - 9400 (-7326)	Lithology		
9400 (-7326) - 9500 (-7423)	Lithology		
9500 (-7423) - 9600 (-7520)	Lithology		
9600 (-7520) - 9700 (-7617)	Lithology		
9700 (-7617) - 9800 (-7714)	Lithology		
9800 (-7714) - 9900 (-7811)	Lithology		
9900 (-7811) - 10000 (-7908)	Lithology		
10000 (-7908) - 10100 (-8005)	Lithology		
10100 (-8005) - 10200 (-8102)	Lithology		
10200 (-8102) - 10300 (-8199)	Lithology		
10300 (-8199) - 10400 (-8296)	Lithology		
10400 (-8296) - 10500 (-8393)	Lithology		
10500 (-8393) - 10600 (-8490)	Lithology		
10600 (-8490) - 10700 (-8587)	Lithology		
10700 (-8587) - 10800 (-8684)	Lithology		
10800 (-8684) - 10900 (-8781)	Lithology		
10900 (-8781) - 11000 (-8878)	Lithology		
11000 (-8878) - 11100 (-8975)	Lithology		
11100 (-8975) - 11200 (-9072)	Lithology		
11200 (-9072) - 11300 (-9169)	Lithology		
11300 (-9169) - 11400 (-9266)	Lithology		
11400 (-9266) - 11500 (-9363)	Lithology		
11500 (-9363) - 11600 (-9460)	Lithology		
11600 (-9460) - 11700 (-9557)	Lithology		
11700 (-9557) - 11800 (-9654)	Lithology		
11800 (-9654) - 11900 (-9751)	Lithology		
11900 (-9751) - 12000 (-9848)	Lithology		
12000 (-9848) - 12100 (-9945)	Lithology		
12100 (-9945) - 12200 (-10042)	Lithology		
12200 (-10042) - 12300 (-10139)	Lithology		
12300 (-10139) - 12400 (-10236)	Lithology		
12400 (-10236) - 12500 (-10333)	Lithology		
12500 (-10333) - 12600 (-10430)	Lithology		
12600 (-10430) - 12700 (-10527)	Lithology		
12700 (-10527) - 12800 (-10624)	Lithology		
12800 (-10624) - 12900 (-10721)	Lithology		
12900 (-10721) - 13000 (-10818)	Lithology		
13000 (-10818) - 13100 (-10915)	Lithology		
13100 (-10915) - 13200 (-11012)	Lithology		
13200 (-11012) - 13300 (-11109)	Lithology		
13300 (-11109) - 13400 (-11206)	Lithology		
13400 (-11206) - 13500 (-11303)	Lithology		
13500 (-11303) - 13600 (-11400)	Lithology		
13600 (-11400) - 13700 (-11497)	Lithology		
13700 (-11497) - 13800 (-11594)	Lithology		
13800 (-11594) - 13900 (-11691)	Lithology		
13900 (-11691) - 14000 (-11788)	Lithology		
14000 (-11788) - 14100 (-11885)	Lithology		
14100 (-11885) - 14200 (-11982)	Lithology		
14200 (-11982) - 14300 (-12079)	Lithology		
14300 (-12079) - 14400 (-12176)	Lithology		
14400 (-12176) - 14500 (-12273)	Lithology		
14500 (-12273) - 14600 (-12370)	Lithology		
14600 (-12370) - 14700 (-12467)	Lithology		
14700 (-12467) - 14800 (-12564)	Lithology		
14800 (-12564) - 14900 (-12661)	Lithology		
14900 (-12661) - 15000 (-12758)	Lithology		
15000 (-12758) - 15100 (-12855)	Lithology		
15100 (-12855) - 15200 (-12952)	Lithology		
15200 (-12952) - 15300 (-13049)	Lithology		
15300 (-13049) - 15400 (-13146)	Lithology		
15400 (-13146) - 15500 (-13243)	Lithology		
15500 (-13243) - 15600 (-13340)	Lithology		
15600 (-13340) - 15700 (-13437)	Lithology		
15700 (-13437) - 15800 (-13534)	Lithology		
15800 (-13534) - 15900 (-13631)	Lithology		
15900 (-13631) - 16000 (-13728)	Lithology		
16000 (-13728) - 16100 (-13825)	Lithology		
16100 (-13825) - 16200 (-13922)	Lithology		
16200 (-13922) - 16300 (-14019)	Lithology		
16300 (-14019) - 16400 (-14116)	Lithology		
16400 (-14116) - 16500 (-14213)	Lithology		
16500 (-14213) - 16600 (-14310)	Lithology		
16600 (-14310) - 16700 (-14407)	Lithology		
16700 (-14407) - 16800 (-14504)	Lithology		
16800 (-14504) - 16900 (-14601)	Lithology		
16900 (-14601) - 17000 (-14698)	Lithology		
17000 (-14698) - 17100 (-14795)	Lithology		
17100 (-14795) - 17200 (-14892)	Lithology		
17200 (-14892) - 17300 (-14989)	Lithology		
17300 (-14989) - 17400 (-15086)	Lithology		
17400 (-15086) - 17500 (-15183)	Lithology		
17500 (-15183) - 17600 (-15280)	Lithology		
17600 (-15280) - 17700 (-15377)	Lithology		
17700 (-15377) - 17800 (-15474)	Lithology		
17800 (-15474) - 17900 (-15571)	Lithology		
17900 (-15571) - 18000 (-15668)	Lithology		
18000 (-15668) - 18100 (-15765)	Lithology		
18100 (-15765) - 18200 (-15862)	Lithology		
18200 (-15862) - 18300 (-15959)	Lithology		
18300 (-15959) - 18400 (-16056)	Lithology		
18400 (-16056) - 18500 (-16153)	Lithology		
18500 (-16153) - 18600 (-16250)	Lithology		
18600 (-16250) - 18700 (-16347)	Lithology		
18700 (-16347) - 18800 (-16444)	Lithology		
18800 (-16444) - 18900 (-16541)	Lithology		
18900 (-16541) - 19000 (-16638)	Lithology		
19000 (-16638) - 19100 (-16735)	Lithology		
19100 (-16735) - 19200 (-16832)	Lithology		
19200 (-16832) - 19300 (-16929)	Lithology		
19300 (-16929) - 19400 (-17026)	Lithology		
19400 (-17026) - 19500 (-17123)	Lithology		
19500 (-17123) - 19600 (-17220)	Lithology		
19600 (-17220) - 19700 (-17317)	Lithology		
19700 (-17317) - 19800 (-17414)	Lithology		
19800 (-17414) - 19900 (-17511)	Lithology		
19900 (-17511) - 20000 (-17608)	Lithology		
20000 (-17608) - 20100 (-17705)	Lithology		
20100 (-17705) - 20200 (-17802)	Lithology		
20200 (-17802) - 20300 (-17899)	Lithology		
20300 (-17899) - 20400 (-17996)	Lithology		
20400 (-17996) - 20500 (-18093)	Lithology		
20500 (-18093) - 20600 (-18190)	Lithology		
20600 (-18190) - 20700 (-18287)	Lithology		
20700 (-18287) - 20800 (-18384)	Lithology		
20800 (-18384) - 20900 (-18481)	Lithology		
20900 (-18481) - 21000 (-18578)	Lithology		
21000 (-18578) - 21100 (-18675)	Lithology		
21100 (-18675) - 21200 (-18772)	Lithology		
21200 (-18772) - 21300 (-18869)	Lithology		
21300 (-18869) - 21400 (-18966)	Lithology		
21400 (-18966) - 21500 (-19063)	Lithology		
21500 (-19063) - 21600 (-19160)	Lithology		
21600 (-19160) - 21700 (-19257)	Lithology		
21700 (-19257) - 21800 (-19354)	Lithology		
21800 (-19354) - 21900 (-19451)	Lithology		
21900 (-19451) - 22000 (-19548)	Lithology		
22000 (-19548) - 22100 (-19645)	Lithology		
22100 (-19645) - 22200 (-19742)	Lithology		
22200 (-19742) - 22300 (-19839)	Lithology		
22300 (-19839) - 22400 (-19936)	Lithology		
22400 (-19936) - 22500 (-20033)	Lithology		
22500 (-20033) - 22600 (-20130)	Lithology		
22600 (-20130) - 22700 (-20227)	Lithology		
22700 (-20227) - 22800 (-20324)	Lithology		
22800 (-20324) - 22900 (-20421)	Lithology		
22900 (-20421) - 23000 (-20518)	Lithology		
23000 (-20518) - 23100 (-20615)	Lithology		
23100 (-20615) - 23200 (-20712)</			

COPELAND

Acid & Cement

BURRTON, KS (620) 463-5161
 GREAT BEND, KS (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

POSTED

INVOICE NUMBER:
C50357-IN

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

LEASE: GAUNT 32B 2

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
12/31/2020	50357		12/30/2020	GAUNT 32B2	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
10.00	MI	MILEAGE PIKCUP		15.00	2.00	17.00
10.00	MI	MILEAGE CEMENT PUMP TRUCK		15.00	4.00	34.00
1.00	EA	PUMP CHARGE SURFACE		15.00	1,100.00	935.00
350.00	SK	65/35 POZ MIX 2% GEL		15.00	11.50	3,421.25
13.00	SK	2% ADDITIONAL GEL		15.00	24.00	265.20
200.00	SK	60/40 POZ MIX 2% GEL		15.00	11.25	1,912.50
30.00	SK	CALCIUM CHLORIDE		15.00	40.00	1,020.00
593.00	EA	BULK CHARGE		15.00	1.25	630.06
256.00	MI	BULK TRUCK - TON MILES		15.00	1.10	239.36
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		8,474.37
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		STFCO Sales Tax:		635.58
		NET 30 DAYS		Invoice Total:		9,109.95

PAID 9208
 CK. NO. 14766 DATE 3/24/21

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^o C 50357

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

DATE 30-Dec 20 20

IS AUTHORIZED BY: Darrah Oil (NAME OF CUSTOMER)

Address _____ City _____ State _____

TO TREAT WELL AS FOLLOWS Lease Gaunt Well No. 32b 2 Customer Order No. _____

Sec. Twp. _____ Range _____ County Stafford 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 _____ Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0001	10	Mileage P.U.	\$2.00	\$20.00
20.0002	10	Mileage P.T.	\$4.00	\$40.00
20.0005	1	Pump Charge Surface	\$1,100.00	\$1,100.00
20.1003	350	65/35 Poz 2% Gel	\$11.50	\$4,025.00
20.1004	13	Add. Gel after 2% Per Sack	\$24.00	\$312.00
20.1002	200	60/40 Poz 2% Gel	\$11.25	\$2,250.00
20.1012	30	Calcium Chloride per 50 lb.	\$40.00	\$1,200.00
20.0011	593	Bulk Charge	\$1.25	\$741.25
20.0012	256	Bulk Truck Miles	\$1.10	\$281.60
		Process License Fee on Gallons		
TOTAL BILLING				\$9,969.85

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. # 8474, 37

Copeland Representative Nathan W.

Station GB Will _____ Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

Hurricane Services, Inc.
 250 N. Water St., Suite #200
 Wichita, KS 67202



Customer	DARRAH OIL COMPANY, LLC	Lease & Well #	GAUNT 32B #2	Date	1/5/2021
Service District	PRATT,KS	County & State	BARTON,KS	Legals S/T/R	25-20S-14W
Job Type	5 1/2 LS	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?
Equipment #	Driver				
916	BRUNGARDT	Job Safety Analysis - A Discussion of Hazards & Safety Procedures <input checked="" type="checkbox"/> Hard hat <input type="checkbox"/> Gloves <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Warning Signs & Flagging <input checked="" type="checkbox"/> H2S Monitor <input type="checkbox"/> Eye Protection <input type="checkbox"/> Required Permits <input type="checkbox"/> Fall Protection <input checked="" type="checkbox"/> Safety Footwear <input type="checkbox"/> Respiratory Protection <input checked="" 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 checked="" type="checkbox"/> Fire Extinguisher <input type="checkbox"/> Additional concerns or issues noted below			
526-521	LESLEY				
527-533	SCOTT				
Comments					

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	110.00	\$2,464.00
CP055	H-Plug	sack	50.00	\$520.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$300.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$280.00
FE135	5 1/2 Turbolizer	ea	3.00	\$192.00
CP170	Mud Flush	gal	500.00	\$400.00
W015	Light Equipment Mileage	mi	10.00	\$16.00
W010	Heavy Equipment Mileage	mi	10.00	\$32.00
W025	Ton Mileage - Minimum	each	1.00	\$240.00
CP15	Cement Pump Service	ea	1.00	\$1,200.00
CP50	Cement Plug Container	job	1.00	\$200.00
CP40	Casing Swivel	job	1.00	\$240.00

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?	<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"/>	Extremely Likely
Unlikely	1	2	3	4	5	6	7	8	9	10	

Total Taxable	\$ -	Tax Rate:		Net:	\$6,084.00
<small>State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.</small>			Sale Tax:	\$ -	
				Total:	\$ 6,084.00
HSI Representative:			<i>Kevin Lesley</i>		

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**



CEMENT TREATMENT REPORT

Customer: DARRAH OIL COMPANY, LLC	Well: GAUNT 32B #2	Ticket: WP 1051
City, State:	County: BARTON,KS	Date: 1/5/2021
Field Rep:	S-T-R: 25-20S-14W	Service: 5 1/2 LS

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H- LONG	Blend:	
Hole Depth:	3570 ft	Weight:	15.0 ppg	Weight:	ppg
Casing Size:	5 1/2 in	Water / Sx:	6.0 gal / sx	Water / Sx:	gal / sx
Casing Depth:	3555 ft	Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
PLUG DEPTH:	3535 ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	84.1 bbls	Total Slurry:	27.8 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	110 sx	Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
2:30PM			-	-	ON LOCATION - SPOT EQUIPMENT
3:30PM					RUN 5 1/2" X 15.5# CASING
					TURBOLIZERS- 1,3,5
5:15PM					CASING ON BOTTOM
5:30PM					HOOK UP TO CASING - BREAK CIRC. WITH RIG PUMP
6:45PM	6.0	300.0	5.0	5.0	H2o AHEAD
6:46PM	6.0	300.0	12.0	17.0	MUD FLUSH
6:48PM	6.0	200.0	5.0	22.0	H2o SPACER
6:50PM	6.0	100.0	27.8	49.8	MIX 110 SKS H- LONG CEMENT @ 15 PPG
6:55PM				49.8	SHUT DOWN- CLEAR PUMP AND LINES - DROP LD PLUG
7:05PM	6.0	-	-	49.8	START DISPLACEMENT
7:15PM	5.0	300.0	60.0	109.8	LIFT PRESSURE
7:18PM	4.0	500.0	74.0	183.8	SLOW RATE
7:25PM	3.0	1,500.0	84.1	267.9	PLUG DOWN - HELD
				267.9	CIRCULATION THRU JOB
7:40PM				267.9	PLUG RATHOLE W 30 SKS
7:45PM				267.9	PLUG MOUSEHOLE W/ 20 SKS
8:00PM				267.9	WASH UP PUMP
				267.9	
8:40PM				267.9	JOB COMPLETE,
				267.9	THANKS- KEVEN AND CREW
				267.9	
				267.9	
				267.9	
				267.9	
				267.9	

CREW		UNIT	SUMMARY		
Cementer:	BRUNGARDT	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	LESLEY	526-521	5.3 bpm	400 psi	268 bbls
Bulk #1:	SCOTT	527-533			
Bulk #2:					