

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	GAUNT 25 B 1
Doc ID	1562476

All Electric Logs Run

Dual Induction
dual comp porosity
micro resistivity
sonic

Saman Sharfaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

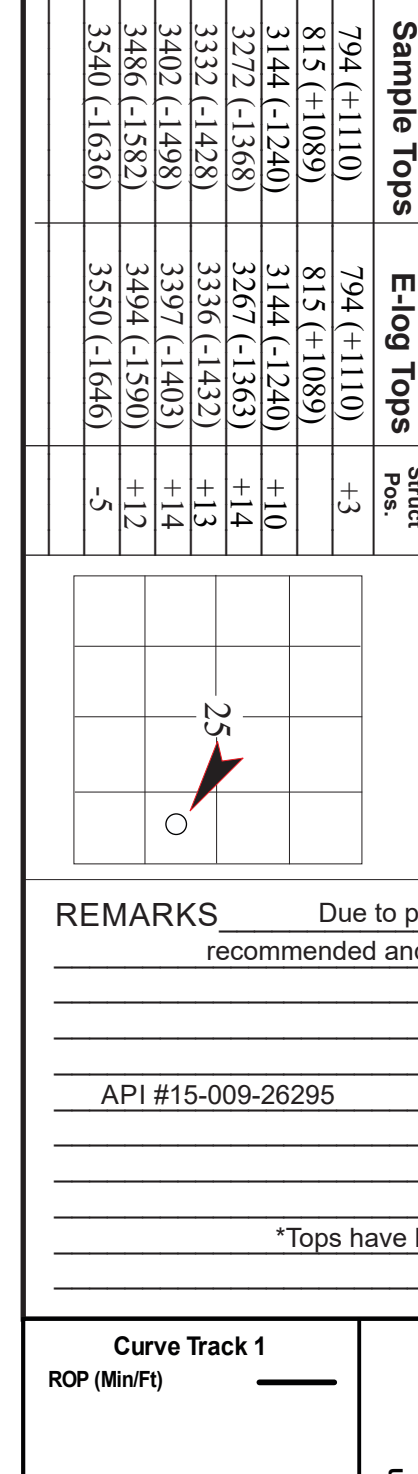
COMPANY **Dartrah Oil Company, LLC**
LEASE **Grant, 25B #1**
ELEVATIONS **KB 1904'**

FIELD **Prichard**
LOCATION **1885 F.S.L. & 930' FEL**
SEC **25** TWP **20S** RGE **14W**
COUNTY **Barton** STATE **Kansas**
CONTRACTOR **Murfin Drilling #20**
SPUD **11/06/20** COMP **11/11/20**

RTD **3650'** LTD **3650'**
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

GEOLOGICAL SUPERVISION FROM **2500'**
CND: D.L. MEL
Midwest Wireline

Formation	Sample Tops	E-log Tops	Struct
Anyhydrite	794 (+110)	794 (+110)	F-3
Base Anyhydrite	815 (+1089)	815 (+1089)	
Heebner	3144 (-1240)	3144 (-1240)	+10
Lansing	3272 (-1368)	3267 (-1363)	+3
LKC #1	3332 (-1428)	3336 (-1432)	+1
LKC #H	3402 (-1498)	3397 (-1403)	+12
BKC	3486 (-1582)	3494 (-1590)	+4
Arbuckle	3540 (-1636)	3550 (-1646)	-5

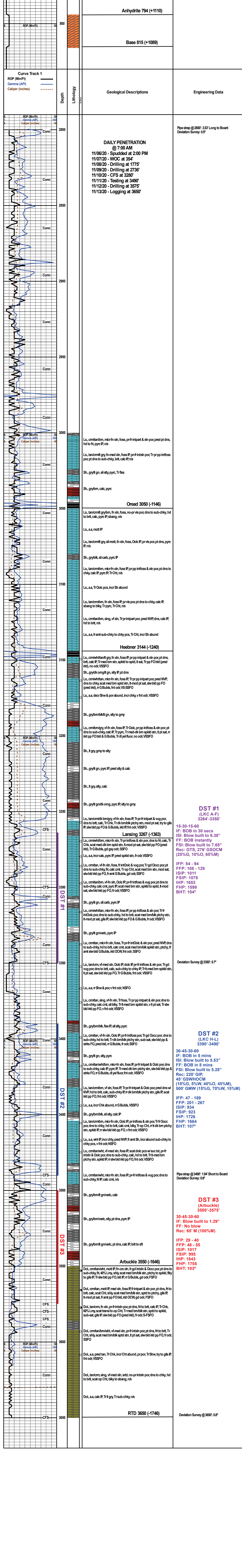


REMARKS Due to poor to good shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,
Saman Sharfaie
Petroleum Geologist

API #15-009-26295

*Tops have been adjusted to electric logs



Depth	Lithology	Geological Descriptions	Engineering Data
794 (+110)	Anyhydrite		
815 (+1089)	Base Anyhydrite		
3144 (-1240)	Heebner		
3272 (-1368)	Lansing		
3332 (-1428)	LKC #1		
3402 (-1498)	LKC #H		
3486 (-1582)	BKC		
3540 (-1636)	Arbuckle		
3650	RTD		

DAILY PENETRATION @ 7:00 AM
 11/06/20 - Spudded at 2:00 PM
 11/07/20 - WOC at 354'
 11/08/20 - Drilling at 1775'
 11/09/20 - Drilling at 2736'
 11/10/20 - CFS at 3260'
 11/11/20 - Testing at 3490'
 11/12/20 - Drilling at 3575'
 11/13/20 - Logging at 3650'

Oread 3050 (-1146)
 Ls, tan/ltm/blk gry, fr med sh, fns, foss, pr pr intpart & xin por, pred pt dns, hd to brit, calc, IP, n/s
 Ls, aa, mott IP
 Ls, tan/ltm/blk gry, sil mott, fr sh, fns, foss, Oolc IP, pr pr intpart & xin por, pred pt dns, IP, n/s
 Sh, gry/blk, sil carb, pycr IP
 Ls, tan/ltm/blk, micr-fn xin, foss IP, pr pr intpart & xin por, pred pt dns to chly, calc IP, pycr IP, n/s
 Ls, aa, Tr Oolc pcs, incr Sh abund
 Ls, tan/ltm/blk, fr sh, fns, foss IP, pr pr intpart & xin por, pred pt dns to chly, calc IP, sbang to bly, Tr pycr, Tr Chk, n/s
 Ls, cm/ltan/blk, sing, v-fn xin, Tr pr intpart, pred NVP, dns, calc IP, hd to brit, n/s
 Ls, aa, frant sub-chly to chly pcs, Tr Chk, incr Sh abund

Heebner 3144 (-1240)
 Ls, cm/whitan/lt gry, fr sh, fns, foss IP, pr pr intpart & xin por, pred pt dns, brit, calc IP, Tr med bm stn, spkld to spkld, lt sat, Tr pp FO bld (pred lrd), no odr, VSSFO
 Sh, gry/blk, omg/lt gn, sly IP, pt dns
 Ls, cm/whitan, micr-fn xin, foss IP, Tr pr intpart & xin por, pred NVP, dns to chly, scat med bm spkld stn, lt med pt sat, slw bld pp FO (pred lrd), r G Bubs, frt odr, VS-SSFO
 Ls, aa, decr Shw & por abund, incr chly, v-fnt odr, VSSFO
 Sh, gry/blk/blk/lt gn, sly to gry
 Ls, cm/bmgry, v-fn xin, foss IP, Tr Oolc, pr pr intpart & xin por, pt dns to sub-chly, calc IP, Tr pycr, Tr med-dk bm spkld stn, lt pt sat, r wld pp FO bld & G Bubs, Tr dl yel fluor, no odr, VSSFO
 Sh, lt gry, gry to sly
 Sh, gry/lt gn, pycr IP, pred sly & calc
 Sh, lt gry, sly, calc
 Sh, gry/lt gn/blk, omg, pycr IP, sly to gry

Lansing 3267 (-1363)
 Ls, tan/ltm/blk, micr-fn xin, foss IP, Tr pr intpart & xin por, pred pt dns to sub-chly, calc, Tr Chk, Tr dk bmbk ptych stn, mod pt sat, try to gls IP, slw bld pp FO & G Bubs, lrd IP, frt odr, VSSFO
 Ls, aa, incr calc, pycr IP, pred spkld stn, fr odr, VSSFO
 Ls, cm/ltan, v-fn xin, foss, fr int Oolc & vug por, pred pt dns to sub-chly, calc, cnt, pycr IP, scat med bm stn, spkld to spkld, lt med sat, slw bld lrd pp FO, frant G Bubs, gd odr, SSFO
 Ls, cm/ltan, v-fn xin, Oolc IP, pr pr intpart & xin por, pred pt dns to sub-chly, calc, cnt, pycr IP, scat med bm stn, spkld to spkld, lt med sat, slw bld lrd pp FO, frant G Bubs, frt odr, VSSFO
 Sh, gry/lt gn, sil carb, pycr IP
 Ls, cm/whitan, micr-fn xin, foss IP, pr pr intpart & xin por, Tr fr int Oolc & xin por, pred NVP, dns to sub-chly, calc, cnt, pycr IP, scat med bm stn, spkld to spkld, lt med sat, slw bld lrd pp FO & G Bubs, frt odr, VSSFO
 Sh, gry/lt gn/blk, pycr IP
 Ls, cm/ltan, micr-fn xin, foss IP, pr pr intpart & xin por, pred NVP, dns to sub-chly, calc, cnt, pycr IP, scat med bm stn, spkld to spkld, lt med sat, slw bld lrd pp FO, frant G Bubs, frt odr, VSSFO
 Ls, aa, incr Chk abund, r G Bubs, VSSFO
 Sh, gry/blk, sil sly, calc IP
 Ls, tan/ltm/blk, micr-fn xin, Oolc IP, pr pr intpart & xin por, pred NVP, dns to sub-chly, calc, cnt, pycr IP, scat med bm stn, spkld to spkld, lt med sat, slw bld lrd pp FO, v-fnt odr, VSSFO
 Ls, aa, wht IP, incr chly, pred NVP, frant Sh, incr abund sub-chly to chly pcs, v-fnt odr, NSFO
 Ls, cm/ltan, v-fn xin, foss IP, scat dolc pcs w suc bit, pr-fr intpart & Oolc por dns to sub-chly, calc, hd to brit, Tr fr med bm spkld stn, spkld IP, r slw bld lrd pp FO, frt odr, VSSFO
 Ls, cm/ltan/whit, micr-fn xin, foss IP, pr pr intpart & vug por, dns to sub-chly, fit, brit, calc, cnt, n/s

Arbuckle 3550 (-1646)
 Dol, cm/ltan/whit, mott IP, fr-crs xin, fr-gd intbn & Occ; por, pt dns to sub-chly, fit, 40% Lmy, shly, scat med bmbk stn, ptych to spkld, flly to gls IP, Tr slw bld pp FO, lrd IP, r G Bubs, gd odr, FSFO
 Dol, cm/ltan, mott IP, med xin, foss IP, fr intpart & xin por, pt dns, fit to brit, calc, scat Chk, shly, scat med bmbk stn, spkld to ptych, gls IP, lt med pt sat, fr ant pp FO bld, lrd OCW, gd odr, FSFO
 Dol, tan/cm, fr xin, fr-fr intbn por, pt dns, fit to brit, calc IP, Tr Chk, 60% Lmy, scat transl to op Chk, Tr med bmbk stn, spkld to spkld, sub-sat, gls IP, slw bld pp FO (pred lrd), fr odr, S-FSFO
 Dol, cm/ltan/whit, v-fn xin, pr-fr intbn por, pt dns, fit to brit, Tr Chk, shly, scat med bmbk spkld stn, lt pt sat, slw bld lrd pp FO, fr odr, SSFO
 Dol, aa, pred tan, Tr Chk, incr Chk abund, pr por, Tr Shw, try to gls IP, frt odr, VSSFO
 Dol, tan/cm, sing, v-fn xin, srt, no-pr intbn por, dns to chly, hd to brit, scat op Chk, bly to sbang, n/s
 Dol, aa, calc IP, Tr lt gry, Tr sub-chly, n/s

RTD 3650 (-1746)
 Deviation Survey @ 3650': 0.8°

DST #1 (LKC A-F) 3264'-3350'
 IF: 30-15-60
 FI: BOB in 30 secs
 IS: Blow built to 6.38"
 FF: BOB instantly
 FS: Blow built to 7.65"
 Rec: GTS, 276' GSOCM (25%G, 10%O, 65%M)
 IFF: 54 - 94
 ISIP: 108 - 129
 FSIP: 1011
 IHP: 1653
 FHP: 1599
 BHT: 104°

DST #2 (LKC H-L) 3390'-3490'
 30-45-30-60
 IF: BOB in 5 mins
 IS: Blow built to 5.53"
 FF: BOB in 8 mins
 FS: Blow built to 5.28"
 Rec: 220' GIP, 45' GSWHOCM (10%G, 5%W, 40%O, 45%M), 500' GMW (15%G, 70%W, 15%M)
 IFF: 47 - 189
 FFP: 201 - 267
 ISIP: 934
 FSIP: 923
 IHP: 1726
 FHP: 1664
 BHT: 107°

DST #3 (Arbuckle) 3500'-3575'
 30-45-30-60
 IF: Blow built to 1.29"
 FF: No blow
 Rec: 65' M (100%M)
 IFF: 29 - 40
 FFP: 48 - 55
 ISIP: 1017
 FSIP: 995
 IHP: 1843
 FHP: 1755
 BHT: 103°

Pipe strap @ 2800': 3.53' Long to Board Deviation Survey: 0.8°

Pipe strap @ 3350': 0.7°

Pipe strap @ 3650': 0.8°



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59544

DST#: 1

Test Start: 2020.11.10 @ 15:03:00

GENERAL INFORMATION:

Formation: **LKC "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:30:36

Time Test Ended: 22:47:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3264.00 ft (KB) To 3350.00 ft (KB) (TVD)

Reference Elevations: 1904.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8700 Outside

Press@RunDepth: 128.71 psig @ 3265.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.11.10 End Date: 2020.11.10

Last Calib.: 2020.11.10

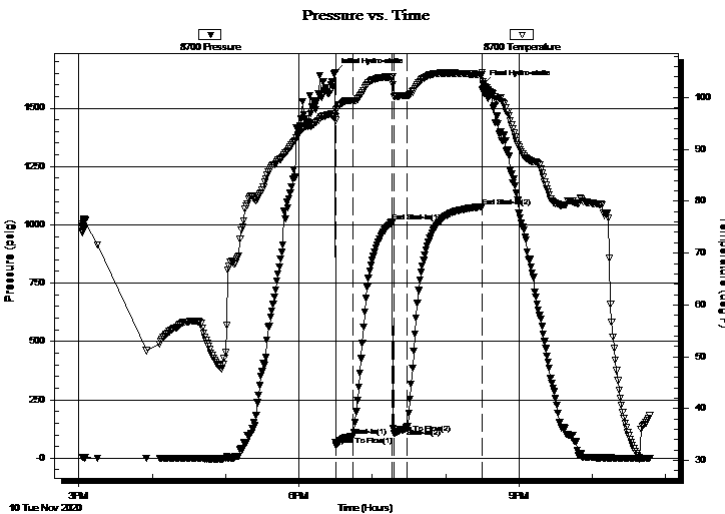
Start Time: 15:03:01 End Time: 22:47:36

Time On Btm: 2020.11.10 @ 18:29:36

Time Off Btm: 2020.11.10 @ 20:30:36

TEST COMMENT: 15- IF- BOB 30secs. Built to 182.91"
30- IS- Built to 6.38"
15- FF- BOB instantly. Built to 455.56"
60- FS- Built to 7.65"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.98	96.31	Initial Hydro-static
1	54.41	97.55	Open To Flow (1)
15	94.15	99.46	Shut-In(1)
47	1011.21	103.94	End Shut-In(1)
49	107.51	100.22	Open To Flow (2)
59	128.71	100.42	Shut-In(2)
120	1077.79	104.41	End Shut-In(2)
121	1599.39	103.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
276.00	GSOCM, 25%G 10%O 65%M	2.24
0.00	GTS	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59544

DST#: 1

Test Start: 2020.11.10 @ 15:03:00

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:	in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
276.00	GSOCM, 25%G 10%O 65%M	2.237
0.00	GTS	0.000

Total Length: 276.00 ft Total Volume: 2.237 bbl

Num Fluid Samples: 0

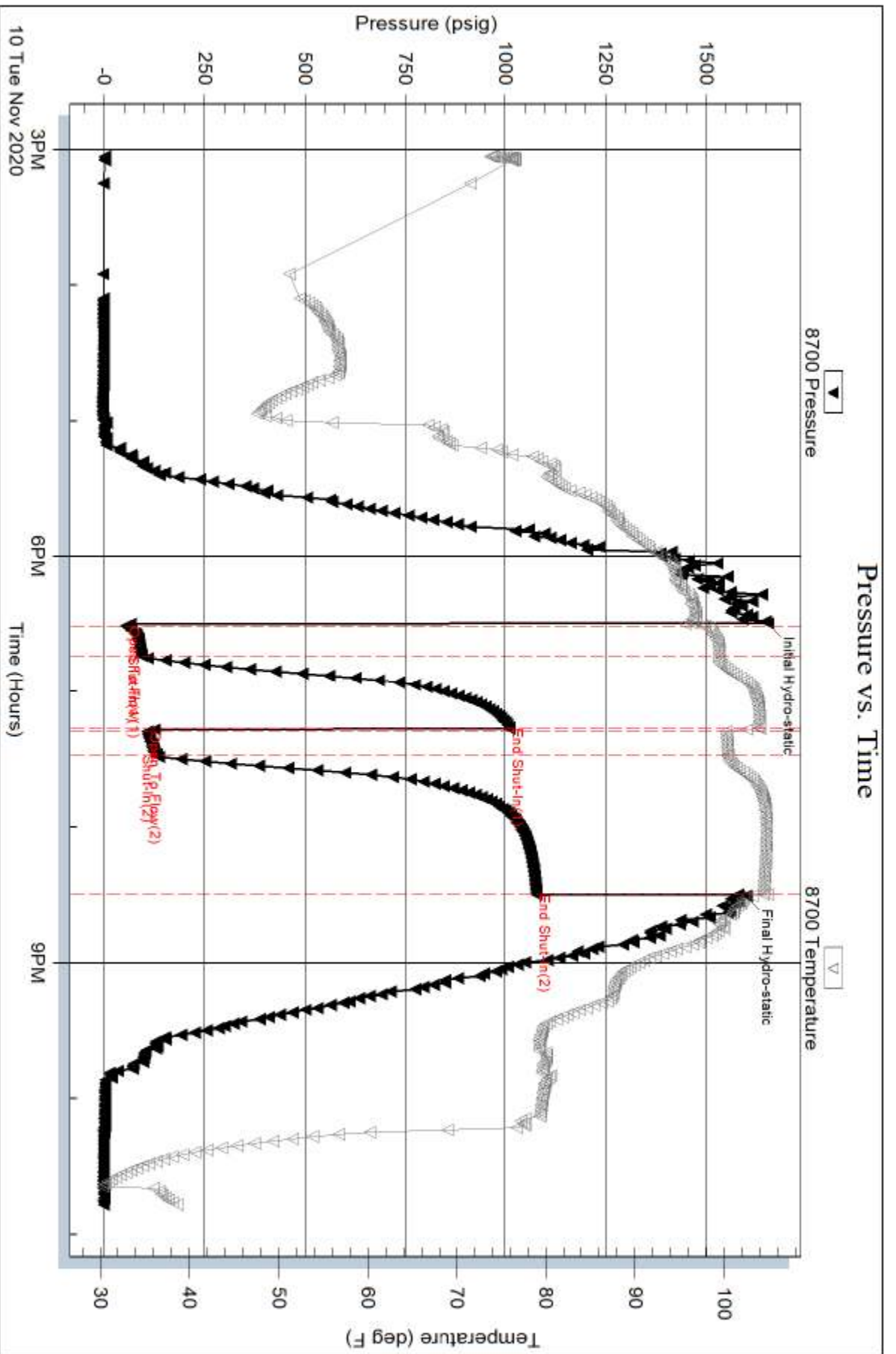
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



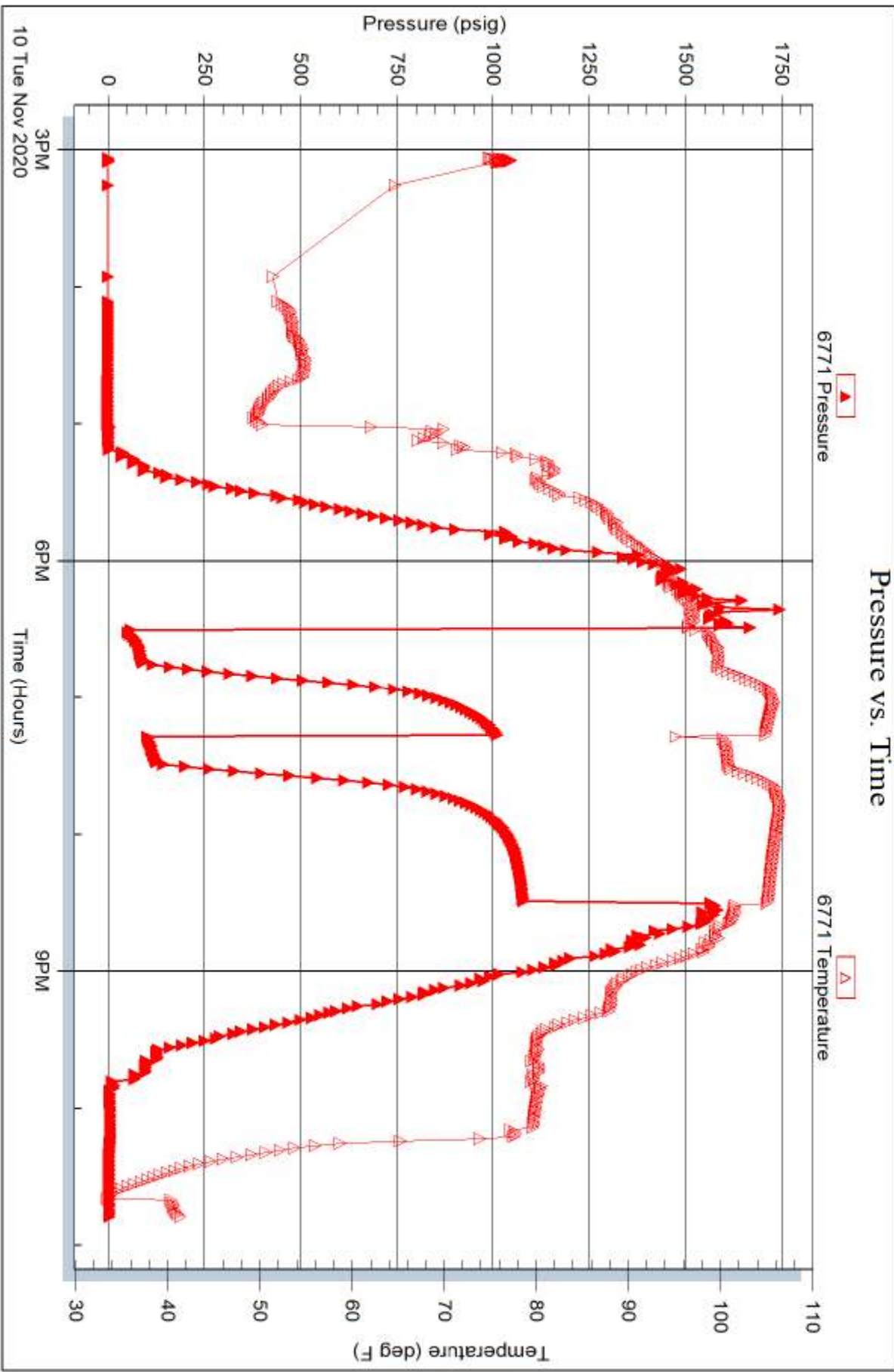
Serial #: 6771

Inside

Darrah Oil Company, LLC

Gaunt 25B #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59544

Printed: 2020.11.11 @ 00:15:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59545

DST#: 2

Test Start: 2020.11.11 @ 08:49:48

GENERAL INFORMATION:

Formation: **LKC "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:09

Time Test Ended: 17:19:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3390.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1904.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8700 Outside

Press@RunDepth: 266.57 psig @ 3391.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.11.11 End Date: 2020.11.11

Last Calib.: 2020.11.11

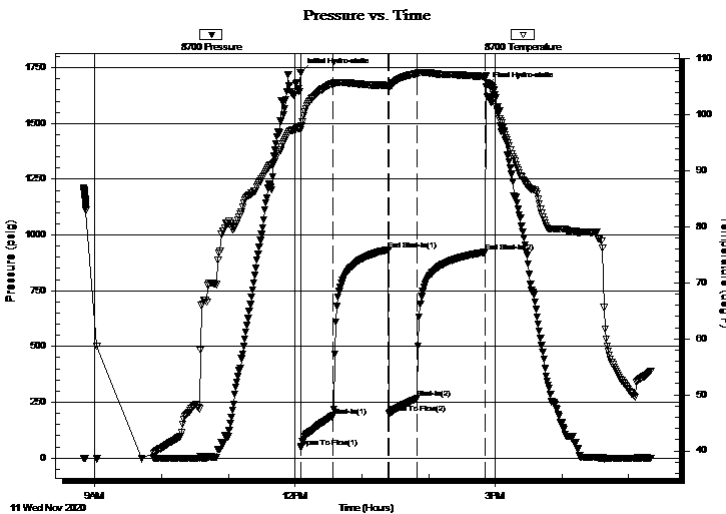
Start Time: 08:49:49 End Time: 17:19:54

Time On Btm: 2020.11.11 @ 12:04:54

Time Off Btm: 2020.11.11 @ 14:51:39

TEST COMMENT: 30- IF- BOB 5 mins. Built to 50.85"
45- IS- Built to 5.53"
30- FF- BOB 8 mins. Built to 27.98"
60- FS- Built to 5.28"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.38	97.91	Initial Hydro-static
1	46.66	97.41	Open To Flow (1)
30	188.61	105.66	Shut-In(1)
79	933.89	105.29	End Shut-In(1)
80	200.62	105.06	Open To Flow (2)
105	266.57	107.41	Shut-In(2)
166	922.65	106.90	End Shut-In(2)
167	1664.23	106.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	GMW, 15%G 70%W 15%M	5.41
45.00	GSWHOCM, 10%G 5%W 40%O 45%M	0.64
0.00	220' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59545

DST#: 2

Test Start: 2020.11.11 @ 08:49:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

55000 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
500.00	GMW, 15%G 70%W 15%M	5.412
45.00	GSWHOCM, 10%G 5%W 40%O 45%M	0.638
0.00	220' GIP	0.000

Total Length: 545.00 ft Total Volume: 6.050 bbl

Num Fluid Samples: 0

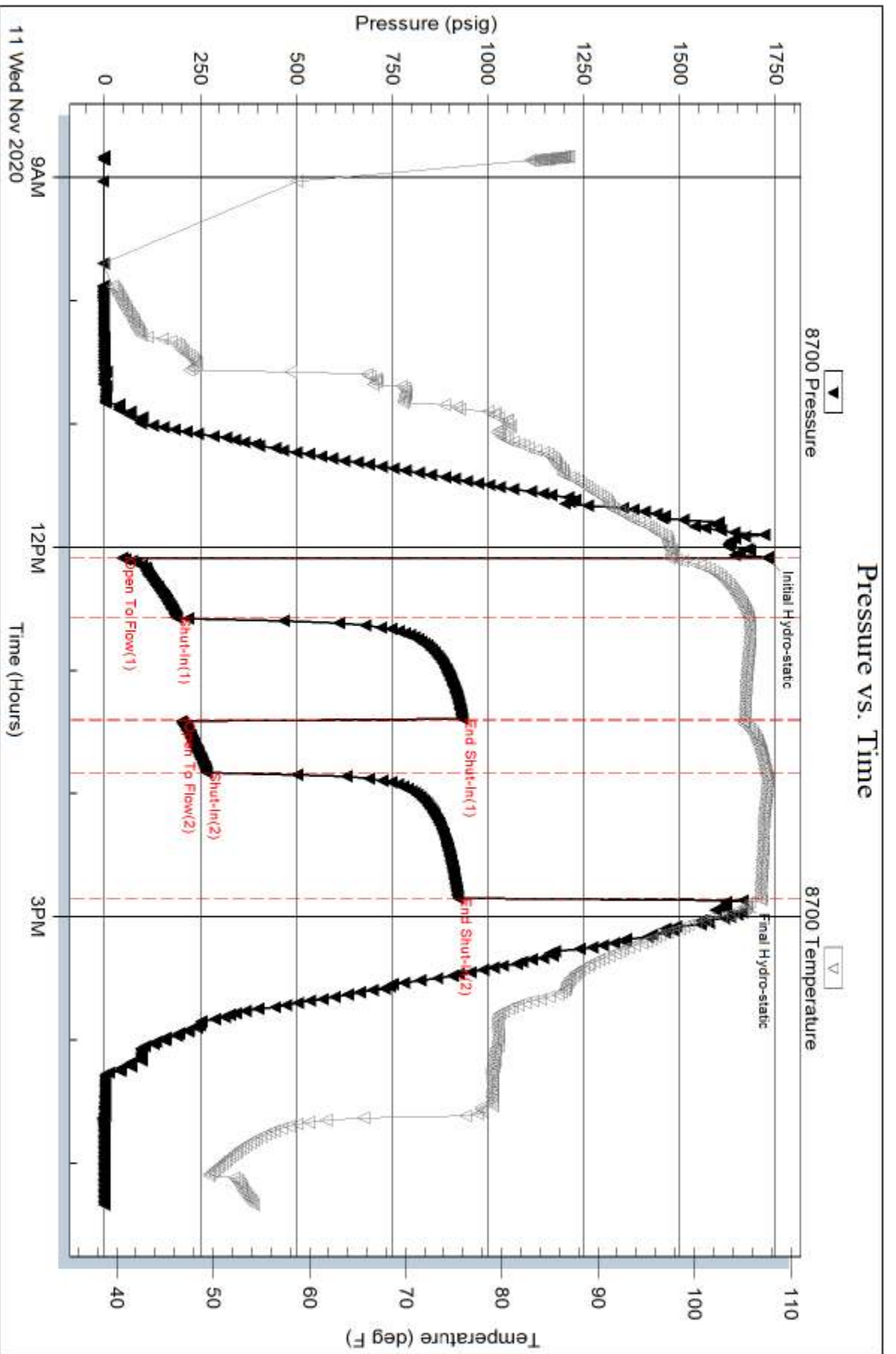
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .14@59deg



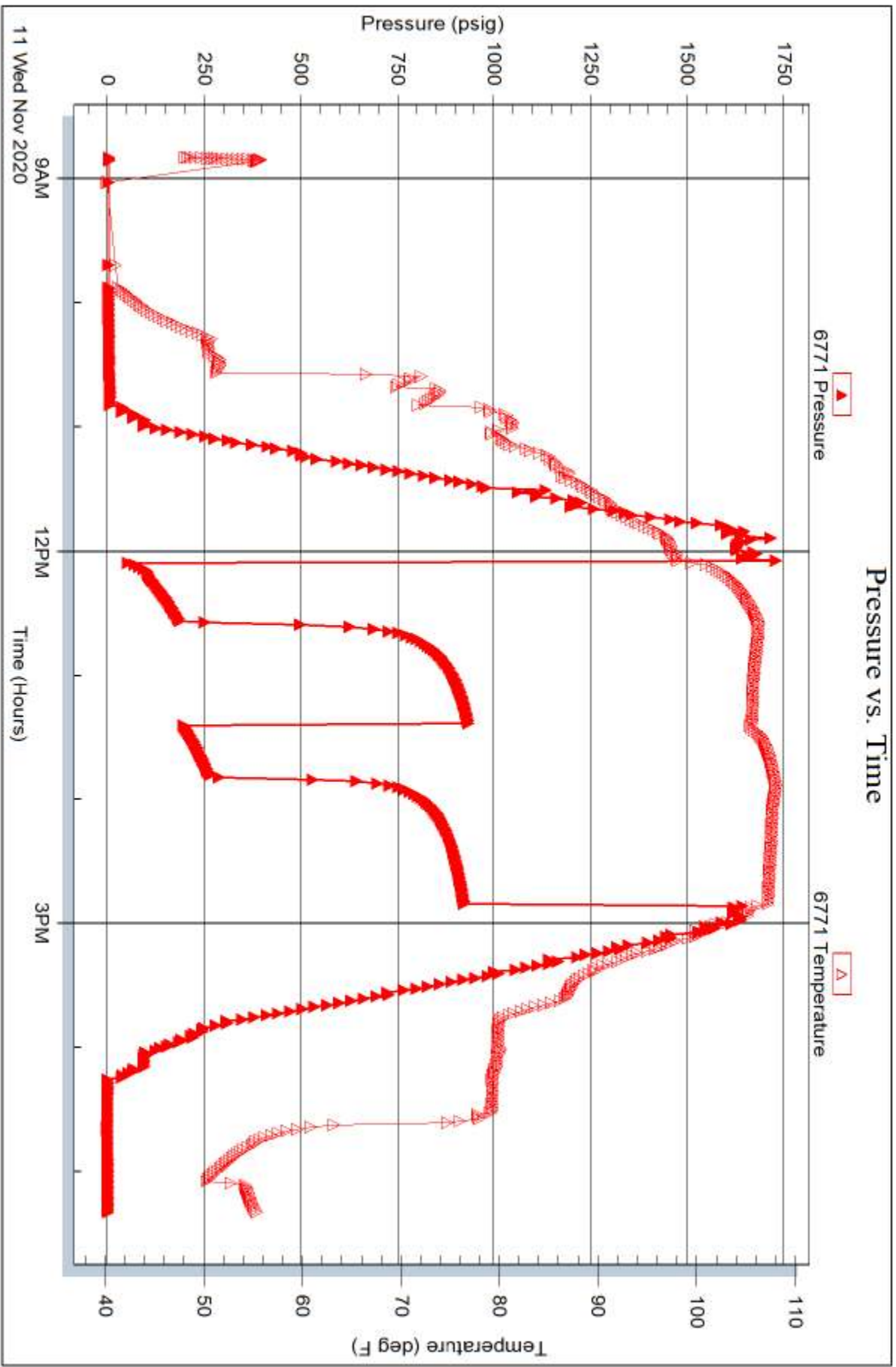
Serial #: 6771

Inside

Darrah Oil Company, LLC

Gaunt 25B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59545

Printed: 2020.11.11 @ 18:33:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59546

DST#: 3

Test Start: 2020.11.12 @ 01:00:34

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:53:25
 Time Test Ended: 08:44:10
 Interval: **3500.00 ft (KB) To 3575.00 ft (KB) (TVD)**
 Total Depth: 3575.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1904.00 ft (KB)
 1893.00 ft (CF)
 KB to GR/CF: 11.00 ft

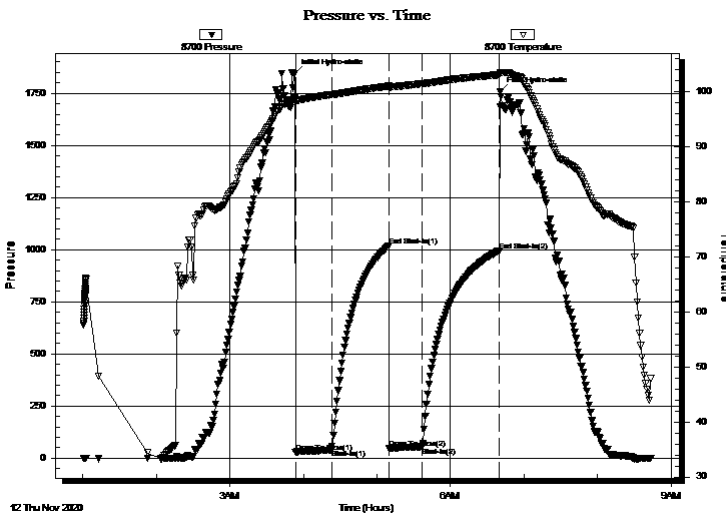
Serial #: 8700

Outside

Press@RunDepth: 54.52 psig @ 3501.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.11.12 End Date: 2020.11.12 Last Calib.: 2020.11.12
 Start Time: 01:00:35 End Time: 08:44:10 Time On Btm: 2020.11.12 @ 03:53:10
 Time Off Btm: 2020.11.12 @ 06:40:40

TEST COMMENT: 30- IF- Slowly built to 1.29"
 45- IS- No blow
 30- FF- No blow
 60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.16	98.83	Initial Hydro-static
1	28.51	98.14	Open To Flow (1)
30	40.05	99.49	Shut-In(1)
77	1017.48	101.01	End Shut-In(1)
77	47.70	100.71	Open To Flow (2)
104	54.52	101.47	Shut-In(2)
167	995.36	103.08	End Shut-In(2)
168	1755.43	103.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	M	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59546

DST#: 3

Test Start: 2020.11.12 @ 01:00:34

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

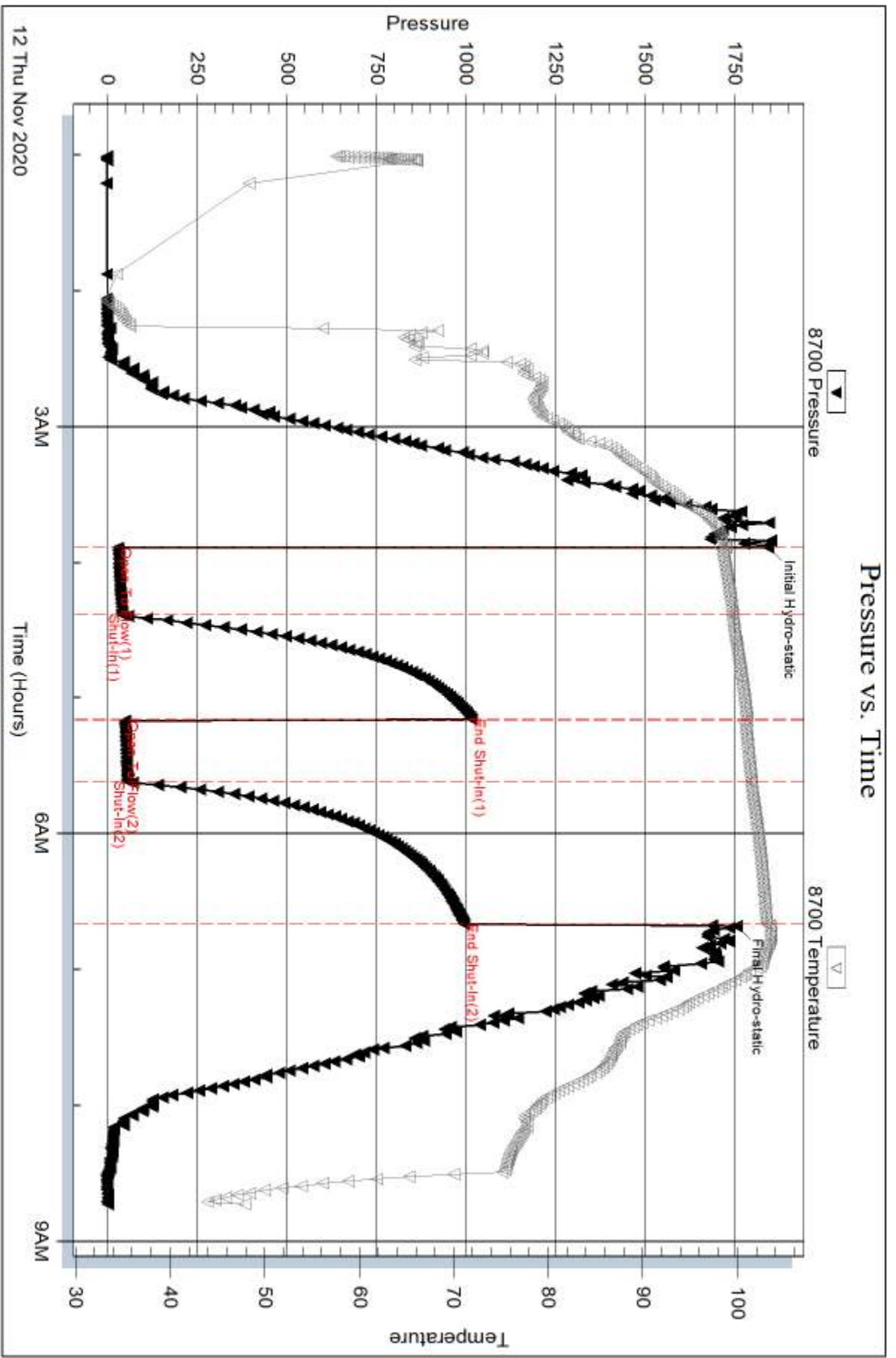
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



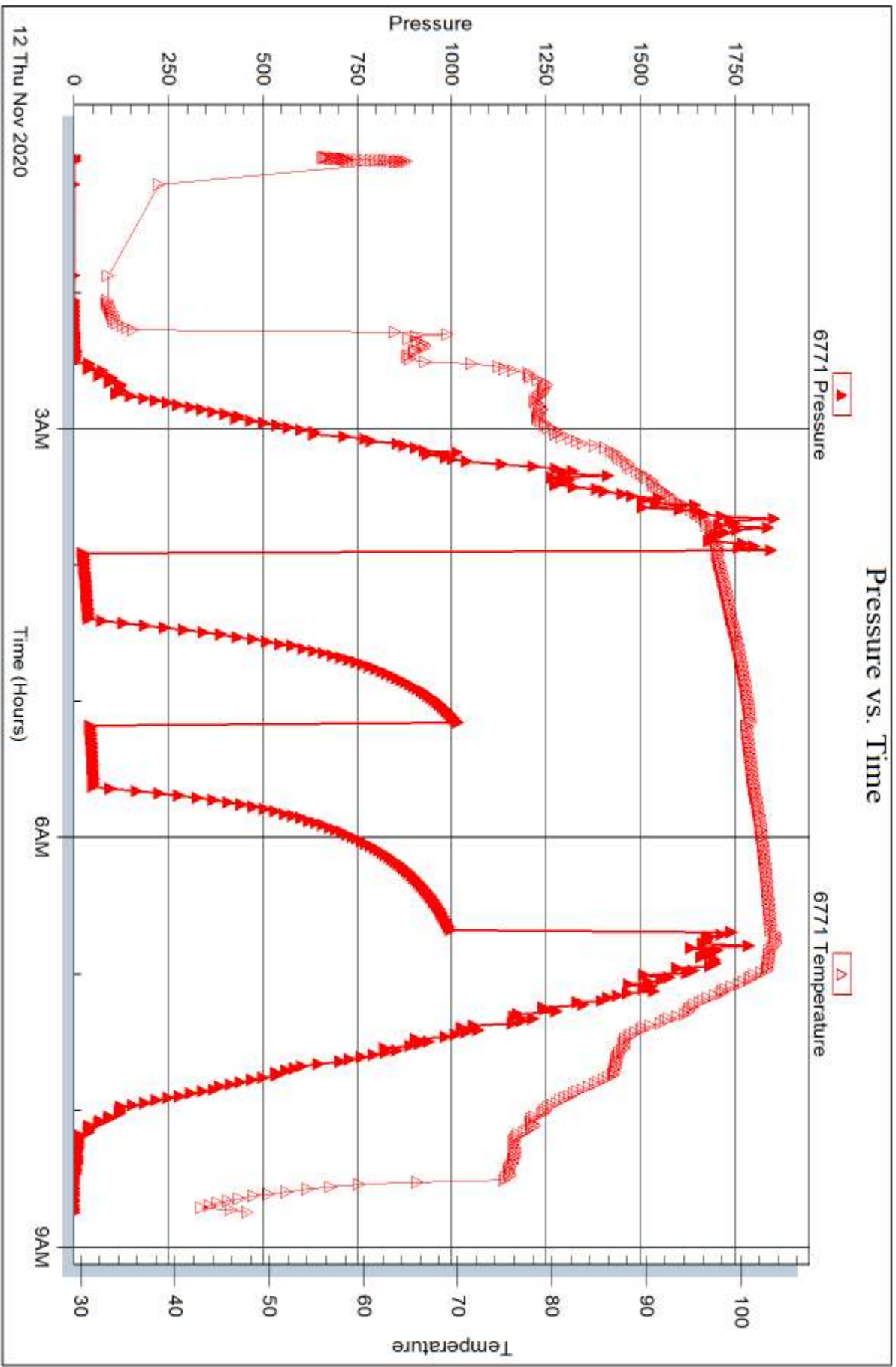
Serial #: 6771

Inside

Darrah Oil Company, LLC

Gaunt 25B #1

DST Test Number: 3





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59547

DST#: 4

Test Start: 2020.11.12 @ 14:00:18

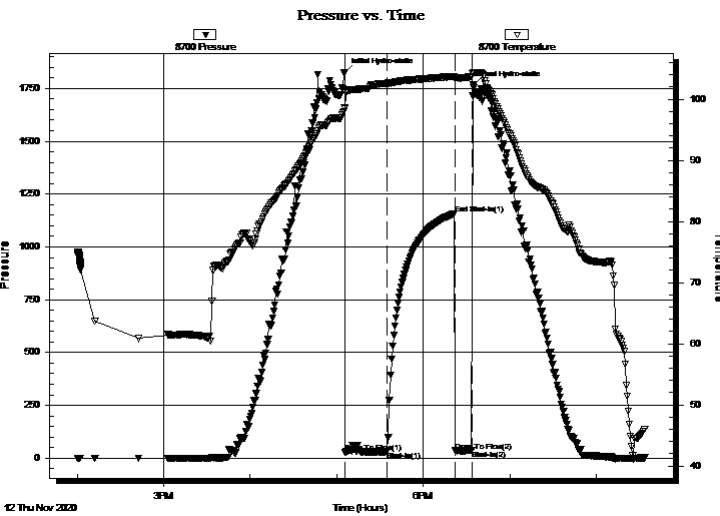
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:05:39
 Tester: Brannan Lonsdale
 Time Test Ended: 20:33:54
 Unit No: 73
 Interval: **3575.00 ft (KB) To 3585.00 ft (KB) (TVD)**
 Reference Elevations: 1904.00 ft (KB)
 Total Depth: 3585.00 ft (KB) (TVD)
 1893.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 8700 Outside

Press@RunDepth: 30.19 psig @ 3576.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.11.12 End Date: 2020.11.12 Last Calib.: 2020.11.12
 Start Time: 14:00:19 End Time: 20:33:54 Time On Btm: 2020.11.12 @ 17:05:24
 Time Off Btm: 2020.11.12 @ 18:34:39

TEST COMMENT: 30- IF- Built to 1.51"
 45- IS- No blow
 10- FF- No blow . Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.78	98.65	Initial Hydro-static
1	25.94	98.45	Open To Flow (1)
30	30.19	102.60	Shut-In(1)
77	1158.01	103.76	End Shut-In(1)
77	33.85	103.38	Open To Flow (2)
89	35.84	103.69	Shut-In(2)
90	1765.66	104.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	WM, 15%W 85%M	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company, LLC

25-20S-14W Barton, KS

125 N. Market
Suite 1425
Wichita, KS 67202
ATTN: Saman Sharifaie

Gaunt 25B #1

Job Ticket: 59547

DST#: 4

Test Start: 2020.11.12 @ 14:00:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

17000 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
30.00	WM, 15%W 85%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

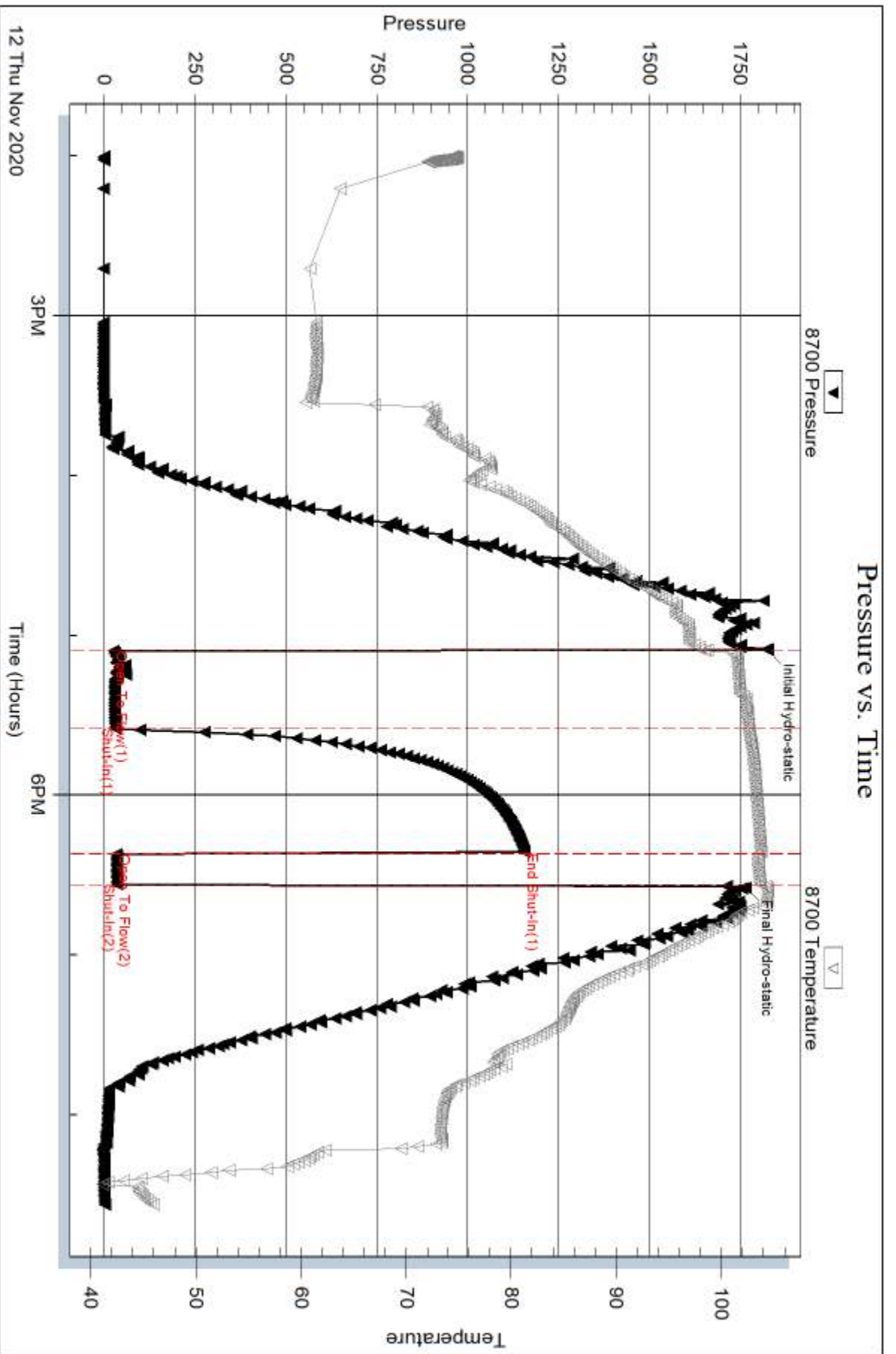
Num Gas Bombs: 0

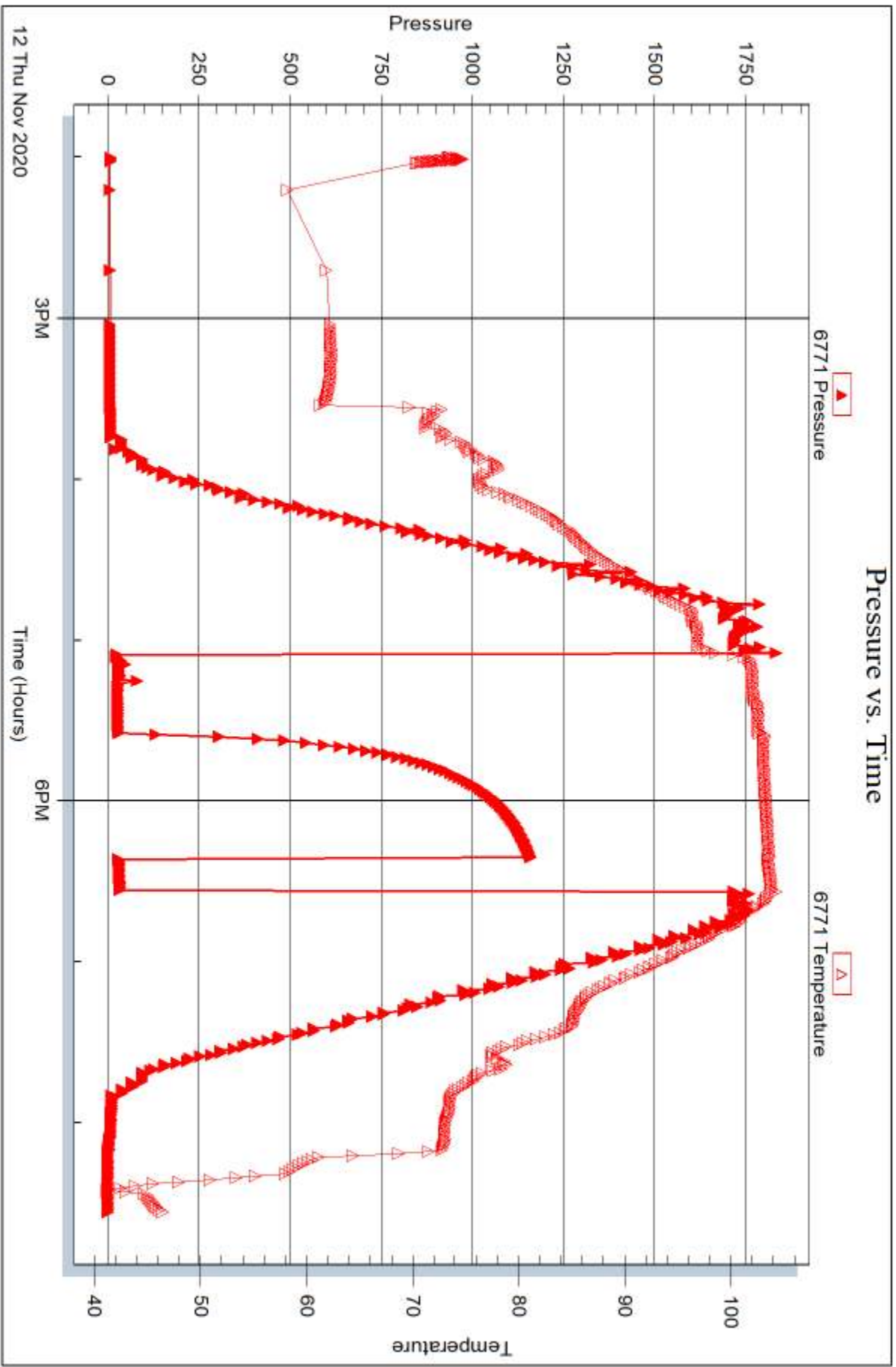
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .51@56deg







CEMENT TREATMENT REPORT

Customer:	DARRAH OIL COMPANT LLC	Well:	GAUNT 25B	Ticket:	ICT4420
City, State:	GREAT BEND KS	County:	BARTON KS	Date:	11/14/2020
Field Rep:	COOPER SEELEY	S-T-R:	25-20S-14W	Service:	5 1/2 L.S.

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	ft
Casing Size:	5 1/2 in
Casing Depth:	3658 ft
Tubing / Liner:	in
Depth:	3650 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	86.6 bbls

Calculated Slurry - Lead	
Blend:	H-LONG
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	35.0 bbls
Total Sacks:	140 sx

Calculated Slurry - Tail	
Blend:	H-PLU
Weight:	13.78 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft ³ / 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	STAGE BBLs	TOTAL BBLs	REMARKS
7:00 PM			-	-	ON LOCATION, SAFTEY MEETING
8:30 PM				-	RUN 5 1/2" CASING, FLOAT SHOE, 19' SHOE JT WITH BAFFLE IN COLLAR, TURBOLIZERS ON 1,3,5
10:50 PM				-	CASING ON BOTTOM
10:57 PM				-	HOOK TO CASING
11:00 PM				-	BREAK CIRC WITH RIG
11:51 PM	5.0	250.0	12.0	12.0	PUMP 500 GALLONS MUD FLUSH
11:54 PM	5.0	250.0	5.0	17.0	PUMP 5 BBL WATER
11:56 PM	5.0	400.0	35.0	52.0	MIX 140 SKS H-LONG
12:07 AM	4.0		4.0	56.0	WASH PUMP AND LINES, DROP PLUG
12:11 AM	6.0	200.0		56.0	START DISPLACEMENT
12:21 AM	6.0	400.0	60.0	116.0	LIFT PRESSURE, STOP RECIPROCATING
12:25 AM	3.0	300.0	75.0	191.0	SLOW RATE
12:28 AM		1,500.0	86.6	277.6	PLUG DOWN, RELEASED AND HELD
12:40 AM	2.0	50.0	7.0	284.6	MIX 30 SKS H-PLUG FOR RAT HOLE
12:45 AM	2.0	50.0	5.0	289.6	MIX 20 SKS FOR MOUSEHOLE
					CIRCULATION THRU JOB
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	MIKE & E.J.
				-	
				-	
				-	
				-	
				-	
				-	
				-	

CREW		UNIT	SUMMARY		
Cementer:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MCGRAW	526/521	4.2 bpm	378 psi	290 bbls
Bulk #1:	MCGRAW	181/532			
Bulk #2:					



CEMENT TREATMENT REPORT

Customer: DARRAH OIL COMPANY, LLC	Well: GAUNT 25B #1	Ticket: ICT 4392
City, State:	County: BARTON, KS	Date: 11/7/2020
Field Rep:	S-T-R: 25-20S-14W	Service: 8 5/8 SURFACE

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	60/40/2 POZMIX	Blend:	COMMON
Hole Depth:	354 ft	Weight:	14.8 ppg	Weight:	15.6 ppg
Casing Size:	8 5/8 in	Water / Sx:	5.2 gal / sx	Water / Sx:	gal / sx
Casing Depth:	352.62 ft	Yield:	1.21 ft ³ / sx	Yield:	1.18 ft ³ / sx
Tubing / Liner:	in	Annular Bbbs / Ft.:	bbs / ft.	Annular Bbbs / Ft.:	bbs / ft.
Plug Depth:	332 ft	Depth:	ft	Depth:	60 ft
Tool / Packer:		Annular Volume:	0.0 bbbs	Annular Volume:	0 bbbs
Tool Depth:	ft	Excess:		Excess:	
Displacement:	20.2 bbbs	Total Slurry:	58.2 bbbs	Total Slurry:	32.5 bbbs
		Total Sacks:	270 sx	Total Sacks:	155 sx

TIME	RATE	PSI	STAGE	TOTAL	REMARKS
			BBLs	BBLs	
6:15PM			-	-	ON LOCATION- SPOT EQUIPMENT 11-6-2020
6:45PM					RIG UP FOR JOB
8:00PM					RUN 9 JOINTS 8 5/8" B.T. CASING
9:20PM					CASING ON BOTTOM
9:30PM					HOOK UP TO CASING - BREAK CIRCULATION WITH RIG PUMP / MUD
10:10PM	5.0	300.0	5.0	5.0	H2o AHEAD
10:13PM	5.0	100.0	58.2	63.2	MIX 270 SKS 60/40/2 POZMIX @ 14.8 PPG
10:24PM	5.0	100.0	-	63.2	START DISPLACEMENT
10:27PM	3.0	250.0	15.0	78.2	SLOW RATE
10:30PM	3.0	300.0	20.2	98.4	CEMENT @ DESIRED DEPTH
				98.4	DID NOT CIRCULATE CEMENT
				98.4	HAD CIRCULATION THRU JOB
1:00 AM				98.4	CEMENT OVER THE TOP WITH 1" 11-7-2020
2:10AM	0.8	50.0		98.4	MIX 155 SKS COMMON WITH 3%CC @ 15.6 PPG
2:45AM		50.0	32.5	130.9	CEMENT TO SURFACE
				130.9	
				130.9	
				130.9	
				130.9	
				130.9	JOB COMPLETE,
				130.9	THANKS- KEVEN AND CREW
				130.9	
				130.9	
				130.9	
				130.9	
				130.9	
				130.9	

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	181-522	3.6 bpm	164 psi	131 bbbs
Bulk #1:	EJ McGRAW	527-533			
Bulk #2:					



Customer	DARRAH OIL COMPANY, LLC		Lease & Well #	GAUNT 25B #1		Date	11/7/2020		
Service District	PRATT, KS		County & State	BARTON, KS		Legals S/T/R	25-20S-14W		
Job Type	8 5/8 SURFACE	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No	Ticket #	ICT 4392
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures							
75	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging				
181-522	OSBORN	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection				
527-533	EJ McGRAW	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations				
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" 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					
Comments									
Product/ Service Code	Description	Unit of Measure	Quantity					Net Amount	
CP070	60/40/2 Pozmix	sack	270.00					\$2,808.00	
CP100	Calcium Chloride	lb	699.00					\$419.40	
CP120	Cello-flake	lb	68.00					\$95.20	
M015	Light Equipment Mileage	mi	10.00					\$16.00	
M010	Heavy Equipment Mileage	mi	10.00					\$32.00	
M025	Ton Mileage - Minimum	each	1.00					\$240.00	
C010	Cement Pump Service	ea	1.00					\$600.00	
C9999	8 5/8" X 2" Bultress Swedge	ea	1.00					\$1,100.00	
CP010	Class A Cement	sack	155.00					\$2,108.00	
	<i>Top off</i>								
Customer Section: On the following scale how would you rate Hurricane Services Inc.?							Net:	\$7,418.60	
Based on this job, how likely is it you would recommend HSI to a colleague?							Total Taxable \$	-	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							Tax Rate:		
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely							Sale Tax:	\$ -	
							Total:	\$ 7,418.60	
							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 *[Signature]* **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: DARRAH OIL COMPANY, LLC	Well: GAUNT 25B #1	Ticket: ICT 4392
City, State:	County: BARTON, KS	Date: 11/7/2020
Field Rep:	S-T-R: 25-20S-14W	Service: 8 5/8 SURFACE

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	60/40/2 POZMIX	Blend:	COMMON
Hole Depth:	354 ft	Weight:	14.8 ppg	Weight:	15.6 ppg
Casing Size:	8 5/8 in	Water / Sx:	5.2 gal / sx	Water / Sx:	gal / sx
Casing Depth:	352.62 ft	Yield:	1.21 ft ³ / sx	Yield:	1.18 ft ³ / sx
Tubing / Liner:	in	Annular Bbbls / Ft.:	bbs / ft.	Annular Bbbls / Ft.:	bbs / ft.
Plug Depth:	332 ft	Depth:	ft	Depth:	60 ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	20.2 bbls	Total Slurry:	58.2 bbls	Total Slurry:	32.5 bbls
		Total Sacks:	270 sx	Total Sacks:	155 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:15PM			-	-	ON LOCATION- SPOT EQUIPMENT 11-6-2020
6:45PM					RIG UP FOR JOB
8:00PM					RUN 9 JOINTS 8 5/8" B.T. CASING
9:20PM					CASING ON BOTTOM
9:30PM					HOOK UP TO CASING - BREAK CIRCULATION WITH RIG PUMP / MUD
10:10PM	5.0	300.0	5.0	5.0	H2o AHEAD
10:13PM	5.0	100.0	58.2	63.2	MIX 270 SKS 60/40/2 POZMIX @ 14.8 PPG
10:24PM	5.0	100.0	-	63.2	START DISPLACEMENT
10:27PM	3.0	250.0	15.0	78.2	SLOW RATE
10:30PM	3.0	300.0	20.2	98.4	CEMENT @ DESIRED DEPTH
				98.4	DID NOT CIRCULATE CEMENT
				98.4	HAD CIRCULATION THRU JOB
1:00 AM				98.4	CEMENT OVER THE TOP WITH 1" 11-7-2020
2:10AM	0.8	50.0		98.4	MIX 155 SKS COMMON WITH 3%CC @ 15.6 PPG
2:45AM		50.0	32.5	130.9	CEMENT TO SURFACE
				130.9	
				130.9	
				130.9	
				130.9	
				130.9	JOB COMPLETE,
				130.9	THANKS- KEVEN AND CREW
				130.9	
				130.9	
				130.9	
				130.9	
				130.9	
				130.9	

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	181-522	3.6 bpm	164 psi	131 bbls
Bulk #1:	EJ McGRAW	527-533			
Bulk #2:					